PRODUCT CATALOGUE
2025

FIXA®
CONSTRUCTION CHEMICALS

FİXA CONSTRUCTION CHEMICALS was founded in İstanbul, Türkiye in 2001 on the principle that modern buildings can only be built with high quality construction materials.

Thanks to our commitment to research and development, FİXA quickly became one of the most important brands in the industry. In the past 24 years, alongside our first factory in Istanbul, the company has established factories in Adana (2009), Ankara (2011) and in 2013 launched a production facility for MS hybrid, polyurethane and silicone products introducing the Turkish construction sector to high technology and innovative solutions.

Through our subsidiary İGLOTEK Thermal Insulation Systems, FİXA has been manufacturing high qualified white and grey EPS insulation boards since 2011, meeting the demands of the thermal insulation industry.

All of FİXA's products are produced in fully computer automated, modern facilities with an annual capacity of 350,000 tons of powder products, 5,000 tons of liquid products, 5,000 tons of silicone sealants-mastics and 350,000 m^3 of EPS.

The 11 main product groups of FİXA are: Waterproofing Systems, Sealants, Repair, Reinforcement and Restoration Systems, Floor Systems, Thermal Insulation Systems, Concrete and Mortar Admixtures, Mold Release Agents and Curing Compounds, Cement Based Plasters and Bonding Mortars, Tile and Ceramic Adhesives, Tile Grouts and Technical Adhesives.

FİXA always places product quality at the forefront to meet customer needs and expectations, invests heavily in R&D, training and quality control systems. All raw materials, semi-finished and finished products are quality controlled before leaving the factory. In addition to CE and TSE quality certificates, FİXA holds ISO 9001:2015 certification and other internationally recognized quality certificates.

With a widespread dealer network across Türkiye, FİXA continues to strengthen its export facilities with the growing distributor network and exports to more than 30 countries from South and Central America to Africa.

In 2022, FİXA Construction Chemicals UK was established to serve the entire European market as a dedicated distribution company.

FİXA emphasizes the correct application of the right product. Our professional sales teams and technical support units are on hand to assist customers ensure proper product selection and application.

As FİXA enters our 25th year, we continue to offer high quality products not only for construction but also for the automotive and various industrial sectors. Driven by our belief in R&D, commitment to product quality and strategic investments, FİXA's advancing toward our goal of becoming the leading brand in construction chemicals. With a quarter century of experience, we will continue to provide reliable, top quality service to the construction industry.

OUR FACTORIES

CONSTRUCTION CHEMICALS

İstanbul Factory

Outdoor Area	11,000 m^2
Closed Area	6,000 m^2
Production Capacity	150,000 ton/year (powder product)
	5,000 ton/year (liquid product)
	5,000 ton/year (MS-silicone sealant)

Adana Factory

Outdoor Area	4,000 m^2
Closed Area	3,000 m^2
Production Capacity	80,000 ton/year (powder product)

Ankara Factory

Outdoor Area	7,200 m^2
Closed Area	4,800 m^2
Production Capacity	120,000 ton/year (powder product)

EPS

İstanbul Factory

Outdoor Area	4,500 m^2
Closed Area	5,000 m^2
Production Capacity	350,000 m^3/year (EPS)

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WATERPROOFING SYSTEMS

POLYMERA® MS

MS Polymer Based Liquid Waterproofing Membrane

Description:
Single component, semi-fluid, ready-to-use, solvent and isocyanate free, UV resistant, high technology coating and waterproofing material, produced with **MS Polymer** hybrid technology.

POLYMERA MS is a medium viscosity product used in covering and repairing cracks up to 5 mm on horizontal and vertical surfaces.

Application Areas:
- Indoor and outdoor,
- Waterproofing, flexible bonding and local repairs of vertical and highly inclined surfaces,
- On almost all kinds of mineral surfaces, such as concrete, stone, marble, ceramic, tile, all kinds of wood, glass, metal, tile, brick, cement-bonded particle board, gas concrete and their combinations,
- Balconies, terraces or inclined roofs where waterproofing is required, on wood and metal surfaces, in intersections of chimneys, ventilations and skylights,
- Wet areas such as bathrooms and kitchens,
- Places below ground level, such as foundations, garages and basements against non-pressurized water and ground moisture.

Advantages:
POLYMERA MS is an **MS Polymer** based product with high technical qualifications, developed with Japanese technology. **MS Polymer** technology has important advantages compared to existing polyurethane, silicone, bitumen or cement-acrylic based coatings:
- Does not contain **solvent** and **isocyanate** which are harmful to human health and to the environment.
- Has **100% elastomeric** composition, does not shrink as it does not contain solvent.
- **Resistant to UV**, does not crack, sag or turn to yellow. Can be safely used outdoor.
- Bonds even on **damp surfaces**, provides **high adherence**.
- Is not harmful to human health and to the environment thanks to its **low VOC** values. Almost odorless.
- Easily and quickly applied with a spatula, trowel or comb. Does not form seams.
- Overpaintable.
- **Very flexible**. Can cover and fill the cracks up to 5 mm. Keeps its elasticity and bonding properties in joints and cracks caused by the movements of the buildings. Turns to its original form perfectly.
- Protects its elasticity even at low temperatures when cured.

POLYMERA MS is a new generation product which offers all these advantages in a single product.

Consumption:
1.40 - 1.50 kg/m^2 for approximately 1 mm thickness in each layer. (Varies depending on the application area, roughness and absorption of the surface.)

Packaging:
1 kg tin cans
7 kg plastic buckets (In 7 kg aluminum foiled package)
14 kg plastic buckets (In 2 x 7 kg aluminum foiled packages)

Tested by METU Chemical Eng Dept. according to BS 6920 Standard. Report No: 2014.03.04.866/01

Technical Properties	
Appearance	: Medium viscosity elastomeric liquid coating
Color	: Pls. see the color chart on page 39
Density	: 1.47 ± 0.05 kg/L
Application Temperature	: Between +5°C and +35°C
Hardness (Shore A)	: 50 ± 5
Bond Strength by Pull-off	: ≥ 2.0 N/mm^2 (EN 1542)
Elongation at Break	: > 200% (7 days)
Capillary Water Absorption and Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3) 0.018 kg/(m^2.h$^{0.5}$) (TS 4045)
Film Formation Time	: 100 ± 30 minutes
Curing Rate	: 3 mm / 24 hours
Service Temperature	: Between -30°C and +80°C

POLYMERA® MS FLUID

MS Polymer Based Fluid Liquid Waterproofing Membrane

Description:
Single component, fluid, ready-to-use, solvent and isocyanate free, UV resistant, high technology coating and waterproofing material, produced with **MS Polymer** hybrid technology.

POLYMERA MS FLUID can be used for waterproofing of horizontal and vertical large surfaces and for bridging capillary cracks up to 3 mm.

Application Areas:
- Indoor and outdoor,
- Waterproofing and local repairs of horizontal surfaces, thanks to its self levelling properties,
- Waterproofing and local repair of vertical surfaces, thanks to its ease of application with roller or brush,
- On almost all kinds of mineral surfaces, such as concrete, stone, marble, ceramic, tile, all kinds of wood, glass, metal, tile, brick, cement-bonded particle board, gas concrete and their combinations,
- Balconies, terraces or inclined roofs where waterproofing is required, on wood and metal surfaces, in intersections of chimneys, ventilations and skylights,
- Wet areas such as bathrooms and kitchens,
- Places below ground level, such as foundations, garages and basements against non-pressurized water and ground moisture.

Advantages:
POLYMERA MS FLUID is an **MS Polymer** based product with high technical qualifications, developed with Japanese technology. **MS Polymer** technology has important advantages compared to existing polyurethane, silicone, bitumen or cement-acrylic based coatings:
- Does not contain **solvent** and **isocyanate** which are harmful to human health and to the environment.
- Has **100% elastomeric** composition, does not shrink as it does not contain solvent.
- **Resistant to UV**, does not crack, sag or turn to yellow. Can be safely used outdoor.
- Bonds even on **damp surfaces**, provides **high adherence**.
- Not harmful to human health and to the environment thanks to its **low VOC** values. Almost odorless.
- Easily and quickly applied with a brush or a roller.
- Does not form seams. Overpaintable.
- **Very flexible**. Can cover the cracks up to 3 mm, fills the cracks up to 2 mm. Keeps its elasticity and bonding properties in joints and cracks caused by the movements of the buildings. Turns to its original form perfectly.
- Protects its elasticity even at low temperatures when cured.

POLYMERA MS FLUID is a new generation product which offers all these advantages in a single product.

Consumption:
1.40 - 1.50 kg/m^2 for approximately 1 mm thickness in each layer. (Varies depending on the application area, roughness and absorption of the surface.) At least two layers are recommended.

Packaging:
1 kg tin cans
7 kg plastic buckets (In 7 kg aluminum foiled package)
14 kg plastic buckets (In 2 x 7 kg aluminum foiled packages)

Tested by METU Chemical Eng Dept. according to BS 6920 Standard. Report No: 2014.03.04.866/02

Technical Properties	
Appearance	: Medium visc. elastomeric fluid liquid coating
Color	: Pls. see the color chart on page 39
Density	: 1.45 ± 0.05 kg/L
Application Temperature	: Between +5°C and +35°C
Hardness (Shore A)	: 30 ± 5
Bond Strength by Pull-off	: ≥ 2.0 N/mm^2 (EN 1542)
Elongation at Break	: > 400% (7 days)
Capillary Water Absorption and Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3) 0.018 kg/(m^2.h$^{0.5}$) (TS 4045)
Film Formation Time	: 160 ± 30 minutes
Curing Rate	: 2 mm / 24 hours
Service Temperature	: Between -30°C and +80°C

AQUAMER® HB

Hybrid Polymer Based Liquid Membrane and Coating

Description:
Single component, fluid, ready-to-use, solvent and isocyanate free, UV resistant, high technology coating and waterproofing material produced with **silane terminated hybrid polymer** technology. Suitable for light pedestrian traffic.

Application Areas:
- Indoor and outdoor,
- As a coating material in balconies and terrace roofs with light pedestrian traffic,
- On almost all kinds of mineral surfaces, such as concrete, stone, marble, ceramic, tile, all kinds of wood, glass, metal, tile, brick, cement-bonded particle board, gas concrete and their combinations,
- Repairing cracks up to 2 mm,
- Wet areas such as bathrooms and kitchens,
- Places below ground level, such as foundations, garages and basements against ground moisture,
- Waterproofing and local repairs of horizontal surfaces, thanks to its self levelling properties,
- Waterproofing and local repair of vertical surfaces, thanks to its ease of application with roller or brush,
- Balconies, terraces or inclined roofs where waterproofing is required, on wood and metal surfaces, in intersections of chimneys, ventilations and skylights,

Advantages:
- **Has medium flexibility**, suitable for **light pedestrian traffic**. Keeps its elasticity and bonding properties in joints and cracks cause by the movements of the buildings. Turns to its original form perfectly.
- Bonds even on **damp surfaces**, provides **high adherence**.
- Does not contain **solvent** and **isocyanate** which are harmful to human health and to the environment. Can be safely used indoor and in contact with potable water.
- **Resistant to UV**, does not crack, sag or turn to yellow. Can be safely used outdoor.
- Easily and quickly applied with a brush or roller. Does not form seams.
- Not harmful to human health and to environment thanks to its **low VOC** values.
- Has 100% elastomeric composition, does not shrink as it does not contain solvent.
- Almost odorless.
- Protects its elasticity even at low temperatures when cured. Overpaintable.

Consumption:
Non-absorbent surfaces (tiles, ceramics):
appr. 0.7 kg/m^2 (2 x 0.35 kg/m^2) in 2 layers
Absorbent surfaces (concrete, wood, natural stone):
appr. 1.0 kg/m^2 (3 x 0.35 kg/m^2) in 3 layers

Packaging:
1 kg tin cans
7 kg plastic buckets (In 7 kg aluminum foiled package)
14 kg plastic buckets (In 2 x 7 kg aluminum foiled packages)

Technical Properties	
Appearance	: Low viscosity elastomeric liquid coating
Color	: Pls. see the color chart on page 39
Density	: 1.15 ± 0.05 kg/L
Application Temperature	: Between +5°C and +35°C
Hardness (Shore D)	: 30 ± 5
Film Formation Time	: 60 ± 30 minutes
Curing Rate	: 1 mm / 24 hours
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

AQUAMER® HB INVISIBLE

Hybrid Polymer Based Transparent Coating and Waterproofing Membrane

Description:
Single component, fluid, ready-to-use, solvent and isocyanate free, UV resistant, high technology **transparent** coating and waterproofing material produced with **silane terminated hybrid polymer** technology. Suitable for light pedestrian traffic.

Application Areas:
- Indoor and outdoor,
- Balconies and terrace roofs with light pedestrian traffic,
- Balconies and terraces covered with glazed tiles, ceramics, natural stone, marble, floor tiles, to provide waterproofing without changing the appearance of the material,
- Reinforced concrete, plaster and screed,
- Covering cracks up to 2 mm,
- Mosaics and mosaic tiles,
- Glass and glass brick,
- Metals such as iron, steel and aluminum,
- Roof coatings such as CTP, PVC and polycarbonate,
- Wet areas such as bathrooms and kitchens,
- Parquet, wooden doors and window frames as a protecting coating and waterproofing material,
- Joint combinations of all of the materials recommended above.

Advantages:
- Decorative and enables waterproofing without damaging the existing coating and does not change the appearance of the coatings as it is **transparent**.
- Does not cause color changes due to oil bleeding on materials such as natural stone or marble, as it does not contain silicone oil or plastifiers.
- Resistant to the abrasion caused by light pedestrian traffic in terraces and balconies.
- Bonds even on **damp surfaces**, provides **high adherence**.
- **Resistant to UV**, does not crack, sag or turn to yellow. Can be safely used outdoor.
- Does not contain **solvent** and **isocyanate** which are harmful to human health and to the environment. Can be safely used indoor and in contact with potable water.
- **Has medium flexibility**, continues to adhere, to cover and to protect the building from the cracks which are formed or expands in joints of roof etc. due to the movements of the buildings. It does not lose its technical properties after being cured. Turns to its original form.
- Has 100% elastomeric composition, does not shrink as it does not contain solvent.
- Almost odorless.
- Easily and quickly applied with brush or roller. Does not form seams. Overpaintable.
- Protects its elasticity even at low temperatures when cured.

Consumption:
To prevent surfaces from dusting and from dirt:
appr. 0.2 kg/m² in single layer
Non-absorbent surfaces (tiles, ceramics):
appr. 0.7 kg/m² (2 x 0.35 kg/m²) in 2 layers
Absorbent surfaces (concrete, wood, natural stone):
appr. 1.0 kg/m² (3 x 0.35 kg/m²) in 3 layers

Packaging:
1 kg tin cans
5 kg plastic buckets (In 5 kg aluminum foiled package)

Approved by METU Chemical Eng. Dept. according to BS 6920 Standard for potable water contact compatibility. Report no: 2014.03.04.866/03

Technical Properties	
Appearance	: Transparent liquid coating
Density	: 1.10 ± 0.05 kg/L
Application Temperature	: Between +5°C and +35°C
Hardness (Shore D)	: 35 ± 5
Elongation at Break	: > 100% (7 days)
Film Formation Time	: 70 ± 30 minutes
Curing Rate	: 1 mm / 24 hours
Service Temperature	: Between -30°C and +80°C

AQUAFIX® C

Concentrated Crystallized Waterproofing Material

Description:
Cement based, **concentrated crystallized** waterproofing material that can be applied in both **positive** and **negative** hydrostatic pressure directions and becomes reactive with water and moisture. It is the concentrated form of **AQUAFIX Crystallized Waterproofing Material**. It is applied alone or as the first coat before **AQUAFIX** to provide better penetration into the concrete.

Application Areas:
Negative Water Pressure:
- Interior waterproofing of basement walls and foundations, floors and horizontal joints,
- Exterior waterproofing of water tanks that are not in the ground,
- Retaining walls, tunnels, subways and elevator pits.

Positive Water Pressure:
- Foundations and shear walls,
- Dams, irrigation canals, swimmimg pools, watertanks and cisterns,
- Concrete pipes, tunnels and culverts.

Advantages:
- Applied from the direction of both **positive** and **negative** hydrostatic pressure.
- Integrates with the concrete surface and penetrates better as it contains **high amount** and **concentrated** chemicals. It is air and water permeable, allows the structure to breathe.
- Enables to ensure 100% coverage of the surface thanks to its **red** color. Prevents corrosion and protects concrete and reinforcement iron. Non-toxic, suitable for potable water tanks.
- **Reactive**, provides waterproofing during the service life of the building.

Consumption:

Under Foundations	**Dry Sprinkle**	3 kg/m²
Shear Walls	**Coating**	Positive water pressure: 2 kg/m² (2 layers) Negative water pressure: 2.5 kg/m² (2 layers)
Cold Joints	**Slurry**	3 kg/m²

Packaging:
5 kg tin cans
25 kg kraft bags

Approved by METU Chemical Eng. Dept. according to BS 6920 Standard for potable water contact compatibility Report no: 2009.03.04.718/02

Technical Properties	
Appearance	: Red colored fine powder
Powder Density	: ~ 1.20 kg/L
Water/Aquafix C Mixing Ratio	: Shear Walls: 9 - 10 L water / 25 kg powder Cold Joints: 6.5 - 7.5 L water / 25 kg powder
Resting Period	: 3 - 5 minutes
Pot Life	: 15 - 35 minutes
Setting Time	: 30 - 60 minutes
Service Temperature	: Between -20°C and +70°C

AQUAFIX® PRO

Crystallized Waterproofing Material

Description:
Cement based, **crystallized** waterproofing material specifically developed for **waterproofing of foundations** that can be applied in **positive** hydrostatic pressure directions and becomes reactive with water and moisture. It reacts with water, moisture and free lime in the concrete and penetrates deeply into the concrete thanks to its formula consisting of cement, chemicals and specially selected fine aggregates. It creates insoluble minerals in capillary spaces and pores.

Application Areas:
It is used for structural waterproofing in concrete under foundation.

Advantages:
- Applied from the direction of both **positive** and **negative** hydrostatic pressure.
- Integrates with the surface and penetrates in depth into the concrete. Minerals formed after its reaction fill the capillary spaces to insulate the concrete both from the surface and in volume.
- Since it is reactive, it continues to react with water molecules throughout the life of the reinforced concrete and provides waterproofing during the service life of the structure.
- Sub-foundation sprinkle application can be done in any weather condition where concrete can be poured. However, if there is a puddle on lean concrete in rainy weather, concrete pouring and dry sprinkling should be done at the same time.
- Since it fills the capillary gaps in the concrete and the cracks that may occur up to 0.5 mm in the concrete, it prevents the penetration of water and moisture into the concrete.
- Allows the concrete to breath as it is air and water vapor permeable. Prevents dampness and odor.
- Not affected from UV and oxidation.
- Saves time and labor, economical.
- Resistant to freeze - thaw cycle.

Consumption:
Under foundations (dry sprinkle) 2 - 3 kg/m²

Packaging:
20 kg kraft bags

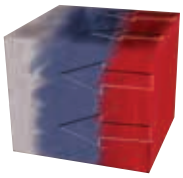
Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.10 kg/L
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

AQUAFIX®

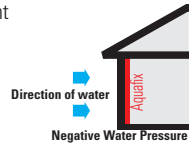
Crystallized Waterproofing Material

Description:
Cement based, **crystallized** waterproofing material that can be applied in both **positive** and **negative** hydrostatic pressure directions and becomes reactive with water and moisture. It reacts with water, moisture and free lime in the concrete and penetrates deeply into the concrete thanks to its formula consisting of cement, chemicals and specially selected fine aggregates. It creates insoluble minerals in capillary gaps and pores.

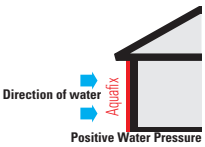


Penetration of AQUAFIX into the concrete to provide waterproofing

Application Areas:
Negative Water Pressure:
- Interior waterproofing of basement walls and foundations,
- Exterior waterproofing of water tanks that are not in the ground,
- Retaining walls,
- Tunnels and subways,
- Floors and horizontal joints,
- Elevator pits.



Positive Water Pressure:
- Foundations and shear walls,
- Water tanks (positive applications from both inside and outside of the underground water tanks),
- Swimmimg pools,
- Irrigation canals,
- Concrete pipes,
- Tunnels and culverts,
- Dams,
- Cisterns.



Advantages:
- Applied from the direction of both **positive** and **negative** hydrostatic pressure.
- Integrates with the surface and penetrates in depth into the concrete. Minerals formed after its reaction fill the capillary spaces to insulate the concrete both from the surface and in the volume.
- Since it is reactive, it continues to react with water molecules throughout the life of the reinforced concrete and provides waterproofing during the service life of the structure.
- Sub-foundation sprinkle application can be done in any weather condition where concrete can be poured. However, if there is a puddle on lean concrete in rainy weather, concrete pouring and dry sprinkling should be done at the same time.
- Its red and grey colors provide ease of application and control.
- There is no need to prime before the application, curing with water is sufficient.
- AQUAFIX slurry application is an extremely easy and effective method for insulating horizontal work joints.
- Since it fills the capillary voids in the concrete and the cracks that may occur up to 0.5 mm in the concrete, it prevents the penetration of water and moisture into the concrete. Protects the concrete from chemical and physical damages, prevents the corrosion of reinforcement.
- Since it penetrates the concrete and does not form an insulating layer; XPS, drainage board and protection wall are not required before backfilling.
- Allows the concrete to breath as it is air and water vapour permeable. Prevents dampness and odor.
- Can be applied on unset concrete, new concrete and old concrete.
- Not affected from UV and oxidation.
- Saves time and labor, economical.
- Resistant to freeze - thaw cycle.
- Non-toxic, suitable for potable water tanks.

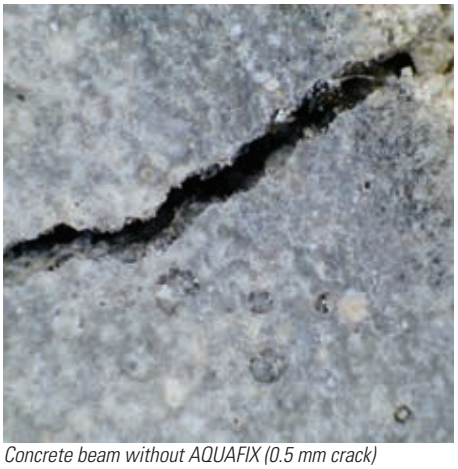
Consumption:

Under Foundations	**Dry Sprinkle**	3 kg/m²
Shear Walls	**Coating**	Positive water pressure: 2 kg/m² (2 layers) Negative water pressure: 2.5 kg/m² (2 layers)
Cold Joints	**Slurry**	3 kg/m²

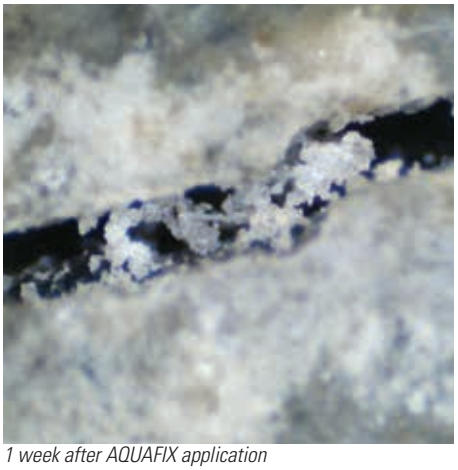
Packaging:
25 kg kraft bags

Approved by METU Chemical Eng. Dept. for potable water contact compatibility
Report no: 2009.03.04.718/02

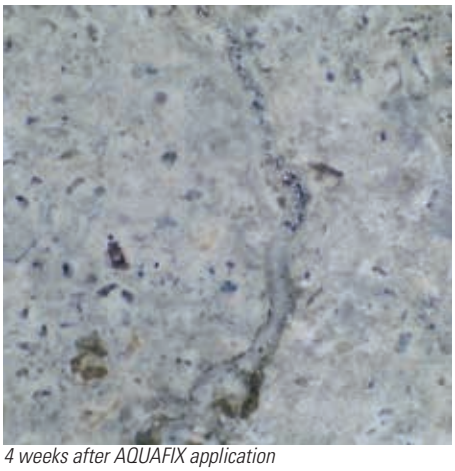
Technical Properties	
Appearance	: Grey or red colored fine powder
Powder Density	: ~ 1.20 kg/L
Water/Aquafix Mixing Ratio	: Shear Walls: 9 - 10 L water / 25 kg powder, Cold Joints: 6.5 - 7.5 L water / 25 kg powder
Resting Period	: 3 - 5 minutes
Pot Life	: 20 - 40 minutes
Setting Time	: 30 - 60 minutes
Service Temperature	: Between -20°C and +70°C



Concrete beam without AQUAFIX (0.5 mm crack)



1 week after AQUAFIX application



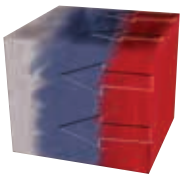
4 weeks after AQUAFIX application

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

AQUAFIX® S

Sulphate Resistant Crystallized Waterproofing Material

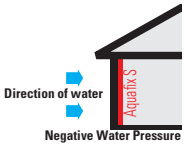
Description:
Cement based, **sulphate resistant**, **crystallized** waterproofing material that can be applied in both **positive** and **negative** hydrostatic pressure directions and becomes reactive with water and moisture. Penetrates in depth into the concrete, in reaction with the water, moisture and free lime inside the concrete (old/new) with sulphate resistant cement, chemicals and specially selected fine aggregates in its formula, forms crystals that do not dissolve in capillary voids and pores. As it is resistant to sulphate and reactive, it protects the building against sulphate attacks, water and moisture throughout the life of the concrete and prevents the steel reinforcement from corroding.



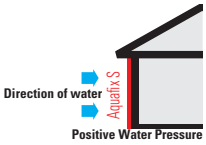
Penetration of AQUAFIX S into the concrete to provide waterproofing

The negative effects of sulphate for concrete
Sulphate attack is a common form of deterioration and occurs when concrete comes into contact with sulphate (SO_4) containing water. It causes both physical and chemical deterioration in concrete. Sulphate:
- Reduces the strength of concrete.
- Causes a hollow structure by losing the impermeability of the concrete. Therefore, it causes corrosion of the reinforcement.
- Causes many other problems in terms of aesthetics.

Application Areas:
Negative Water Pressure:
- Reinforced concrete buildings for which sulphate causes risks,
- Interior waterproofing of basement walls and foundations,
- Exterior waterproofing of water tanks which are not in the ground,
- Retaining walls,
- Tunnels and subways,
- Floors and horizontal joints,
- Elevator pits.



Positive Water Pressure:
- Waterproofing of all kinds of reinforced concrete constructions which are exposed to sulphate and corrosive salts,



- Foundations and shear walls,
- Water tanks (positive applications from both inside and outside of the water tanks under the ground),
- Swimming pools,
- Irrigation canals and concrete pipes,
- Tunnels and culverts,
- Dams,
- Cisterns.

Advantages:
- Since it fills the capillary voids and the cracks up to 0.5 mm in the concrete, it prevents the penetration of water, moisture and sulphate into the concrete. It prevents reinforcement corrosion by protecting concrete from chemical and physical damages caused by **sulphate attacks**.
- Applied from the direction of both **positive** and **negative** hydrostatic pressure.
- Since it is reactive, it continues to react with water molecules throughout the life of the reinforced concrete and provides waterproofing during the service life of the structure.
- Sub-foundation sprinkle application can be done in any weather condition where concrete can be poured. However, if there is a puddle on lean concrete in rainy weather, concrete pouring and dry sprinkling should be done at the same time.
- Red and grey colors of AQUAFIX S provide ease of application and control.
- No need to use a primer before the application, curing with water is sufficient.
- AQUAFIX S slurry application is an extremely easy and effective method for insulating horizontal work joints.
- Since it penetrates the concrete and does not form an insulating layer; XPS, drainage board and protection wall are not required before backfilling.
- Allows the concrete to breath as it is air and water vapour permeable. Prevents dampness and odor.
- Can be applied on unset concrete, new concrete and old concrete.
- Not affected from UV and oxidation.
- Saves time and labor, economical.
- Resistant to freeze - thaw cycle.
- Non-toxic, suitable for potable water tanks.

Consumption:

Under Foundations	**Dry Sprinkle**	3 kg/m²
Shear Walls	**Coating**	Positive water pressure: 2 kg/m² (2 layers) Negative water pressure: 2.5 kg/m² (2 layers)
Cold Joints	**Slurry**	3 kg/m²

Packaging:
25 kg kraft bags

Approved by METU Chemical Eng. Dept. according to BS 6920 Standard for potable water contact compatibility Report no: 2009.03.04.718/02

Technical Properties	
Appearance	: Red or grey colored fine powder
Powder Density	: ~ 1.20 kg/L
Water/Aquafix S Mixing Ratio	: Shear Walls: 9 - 10 L water / 25 kg powder, Cold Joints: 6.5 - 7.5 L water / 25 kg powder
Resting Period	: 3 - 5 minutes
Pot Life	: 20 - 40 minutes
Setting Time	: 30 - 60 minutes
Service Temperature	: Between -20°C and +70°C

AQUAFIX® EXPAN

High Strength Shrinkage Compensated Structural Waterproofing Repair Mortar

Description:
Cement based, **crystallized** and **shrinkage compensated structural repair mortar** used for filling tie rod holes, chamfering and segregation repairs on concrete surfaces. It gains high strength in a short time and provides water impermeability with the active chemicals it contains. It is resistant to both **positive** and **negative** hydrostatic water pressure. Thanks to its reactive feature, it provides waterproofing on the concrete surfaces on which it is applied throughout the service life of the structure.

Application Areas:
- Repairing all kinds of concrete in contact with water,
- Filling around tie rod holes and rebar ties,
- Repairs requiring early and high strength,
- Repairing segregated shear wall,
- Horizontal and vertical cold joint repairs and chamfering applications,
- Filling the gaps formed between old and new concrete,
- Filling the core holes,
- Filling the spaces around the installation pipes and elements.

Advantages:
- Does not shrink, has a thixotropic consistency.
- Used both in structural repair and waterproofing.
- Used on shear walls, chamfering applications and filling tie rod holes that require waterproofing, completely fills fine cavities with its self-setting feature.
- Does not require primer.
- Provides early high compressive strength.
- Resistant to impacts and vibrations.
- Provides high adhesion to concrete and reinforcement.
- Does not separate from repaired parts.
- Saves time in multi-length works as it cures fast.
- Is reactive, reaction starts when it is in contact with water and moisture, it provides continuous waterproofing.
- Only mixed with water, easy to apply. Surface levelling is easy, provides surface integrity.
- Does not segragate.

Consumption:
Approximately 10 liters of mortar is obtained with 20 kg of AQUAFIX EXPAN.

Packaging:
20 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.40 kg/L
Water Mixing Ratio	: 2.8 L water / 20 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 30 - 45 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 7 days : ≥ 30 N/mm² (EN 12190) 28 days : ≥ 45 N/mm² (EN 12190)
Setting Time	: ~ 40 minutes
Curing Time	: ~ 2 - 3 days
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

AQUAFIX® 2K

Double Component Crystallized Waterproofing Material

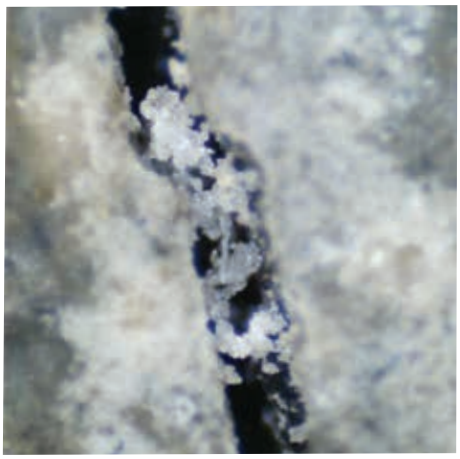
Description:
Cement and polymer emulsion based, double component, crystallized waterproofing material which can be applied in both **positive** and **negative** hydrostatic pressure directions. Due to its crystalline properties, it reacts with water, moisture and free lime present in the concrete structure, forming crystals that fill the capillary voids in the concrete. At the same time, it creates a waterproof layer on the surface of the applied concrete.

Application Areas:
- Indoor and outdoor,
- Waterproofing horizontal and vertical surfaces,
- On exposed concrete surfaces,
- On cement based plasters and screeds,
- Waterproofing against both positive and negative water pressure,
- Waterproofing structures both below and above ground,
- Shear wall insulation,
- Internal waterproofing of underground garage and basement shear walls (negative waterproofing),
- Potable and utility water tanks,
- As a waterproofing material against leaks in balconies, bathrooms, kitchens, toilets and private swimming pools,
- Thermal pools and hot water tanks (T ≤ 80°C) as well as brine pools,
- Reinforced concrete rain gutters and irrigation channels,
- Waterproofing of silos, tunnels and similar reinforced concrete structures.

Advantages:
- Can be applied against both **positive** and **negative** hydrostatic pressure.
- Easy to apply with a brush or roller on horizontal and vertical surfaces.
- Resistant to water pressure from both positive and negative sides.
- Integrates with the substrate and deeply penetrates the concrete. The minerals formed after the reaction fill the capillary voids, while also providing surface waterproofing. As it crystallizes within the concrete, it creates a flexible and durable surface layer, ensuring dual protection.
- Free from soda and chlorides, protecting the concrete's steel reinforcements against corrosion.
- Resistant to sudden temperature changes and freeze-thaw cycles once cured.
- Provides seamless and jointless waterproofing.
- No primer is required before application; curing with water is sufficient.
- Allows the concrete to breath as it is air and water vapour permeable. Prevents dampness and odor.
- Non-toxic and suitable for potable water tanks.
- Due to its reactive nature, it continues to interact with water throughout the lifetime of the concrete, ensuring long-term waterproofing.
- Can be applied to fresh, new and existing concrete.

Consumption:
Against moisture (in 2 coats): 2 kg/m^2
Against non-pressurized water (in 2 coats): 3 kg/m^2
Against pressurized water (in 2-3 coats): 4 kg/m^2
Waterproofing from the negative side: Minimum 3 kg/m^2

Packaging:
Component A: 25 kg kraft bags
Component B: 3 kg plastic jerrycans



Technical Properties	
Appearance	: Component A: Grey colored powder, Component B: White colored liquid
Fresh Mortar Mixture Density	: ~ 1.90 kg/L
Density	: ~ 1.08 kg/L (powder density), ~ 1.02 kg/L (liquid density)
Mixing Ratio	: 3 kg liquid / 25 kg powder / 5.5 L water
Pot Life	: 45 minutes
Resting Period	: 3 - 5 minutes
Application Temperature	: Between +5°C and +35°C
Application Thickness	: 2 - 3 mm
Setting Time	: Initial Setting Time: 360 minutes (EN 196-3) Final Setting Time: 480 minutes (EN 196-3)
Water Vapor Permeability	: Class I S_D < 5 m (Water vapor permeable) (EN ISO 7783)
Adhesion Strength by Pull-off Test	: ≥ 1 N/mm^2 (EN 1542)
Compressive Strength	: 27 N/mm^2 (28 days) (EN 196-1)
Flexural Strength	: 10 N/mm^2 (28 days) (EN 196-1)
Capillary Water Absorption and Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3)
Waiting Time Between Coats	: 3 hours
Time to Put into Service	: Min. 7 days (in positive pressure)
Time for Coating	: Min. 7 days (in positive pressure)
Time for Filling Water Tanks	: Min. 7 days (in positive pressure) Min. 14 days (in negative pressure)
Service Temperature	: Between -20°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

AQUAFIX® LIQUID C

Concentrated Crystallized Capillary Waterproofing Additive for Concrete

Description:
Concentrated **crystallized** waterproofing **liquid** additive with reactive properties which forms needle like crystals in the pores and capillary voids in reaction with water, moisture and free lime after it is mixed into the concrete.

Application Areas:
- All reinforced concrete structures exposed to water, moisture, sulphate and chemicals such as chloride ions that may damage the concrete,
- Bored pile foundation,
- Wells, foundation and shear walls,
- Watertanks and treatment plants,
- Potable and waste water tanks,
- Elevator pits,
- Swimming pools,
- Dams and irrigation channels,
- Concrete pipes,
- Tunnels, subways and culverts,
- Cisterns,
- Retaining walls,
- Underground car parks,
- Precast concrete elements.

Advantages:
- Homogeneously distributed in the concrete in the transmixer at the construction site as it is in liquid form. There is no risk of lumping.
- Does not affect the slump value and workability of the concrete.
- Prevents the penetration of water, moisture and sulphate into the concrete as it fills the capillary voids and the cracks up to 0.5 mm. Protects the concrete from chemical and physical damages caused by sulphate attacks and prevents reinforcement corrosion.
- Since it insulates the concrete volumetrically, there is no need for a protection layer.
- Increases the compressive strength of the concrete as it fills the capillary voids of the concrete.
- Continues to operate under hydrostatic pressure.
- Since it is reactive, it continues to react with water molecules throughout the life of the concrete and protects the concrete and the steel reinforcement from corrosion for a lifetime.
- Easy to apply, accelerates the work schedule.
- Can be used in all weather conditions suitable for pouring concrete.
- Ideal for single-sided mold-cast shear wall insulation.
- Can be used with all cement types produced in accordance with ASTM and EN standards. It is also compatible with slag and pozzolans such as fly ash, GGBS and silica fume.
- Air and water vapor permeable, allows the concrete to breathe. Prevents damp odor in the basement floors.
- Resistant to freeze - thaw cycle.
- Non-toxic, can be used in potable water tanks.

Consumption:
Up to 1% of the cement weight in the concrete and the maximum consumption for each concrete class should not exceed 7 kg per 1 m^3 of concrete.

Packaging:
30 kg plastic jerrycans and 200 kg barrels

Technical Properties	
Appearance	: Light brown colored liquid
Liquid Density	: ~ 1.15 kg/L (20°C)
Corrosive Behavior	: Not corrosive
Chloride Ion Content	: < 0.1%
Application Temperature	: All weather conditions suitable for pouring concrete
Working Time Inside The Mixture	: 50 minutes

AQUAFIX® LIQUID

Crystallized Capillary Waterproofing Additive for Concrete

Description:
Crystallized waterproofing **liquid** additive with reactive properties which forms needle like crystals in the pores and capillary voids in reaction with water, moisture and free lime after it is mixed into the concrete.

Application Areas:
- All reinforced concrete structures exposed to water, moisture, sulphate and chemicals such as chloride ions that may damage the concrete,
- Bored pile foundation,
- Wells, foundation and shear walls,
- Watertanks and treatment plants,
- Potable and waste water tanks,
- Elevator pits,
- Swimming pools,
- Dams and irrigation channels,
- Concrete pipes,
- Tunnels, subways and culverts,
- Cisterns,
- Retaining walls,
- Underground car parks,
- Precast concrete elements.

Advantages:
- Homogeneously distributed in the concrete in the transmixer at the construction site as it is in liquid form. There is no risk of lumping.
- Prevents the penetration of water, moisture and sulphate into the concrete as it fills the capillary voids and the cracks up to 0.5 mm. Protects the concrete from chemical and physical damages caused by sulphate attacks and prevents reinforcement corrosion.
- Since it insulates the concrete volumetrically, there is no need for a protection layer.
- Increases the compressive strength of the concrete as it fills the capillary voids of the concrete.
- Continues to operate under hydrostatic pressure.
- Since it is reactive, continues to react with water molecules throughout the life of the concrete and protects the concrete and the steel reinforcement from corrosion for a lifetime.
- Easy to apply, accelerates the work schedule.
- Can be used in all weather conditions suitable for pouring concrete.
- Ideal for single-sided mold-cast shear wall insulation.
- Can be used with all cement types produced in accordance with ASTM and EN standards. It is also compatible with slag and pozzolans such as fly ash, GGBS and silica fume.
- Air and water vapor permeable, allows the concrete to breathe. Prevents damp odor in the basement floors.
- Resistant to freeze - thaw cycle.
- Non-toxic, can be used in potable water tanks.

Consumption:
Up to 2% of the cement weight in the concrete and the maximum consumption for each concrete class should not exceed 7 kg per 1 m^3 of concrete.

Packaging:
30 kg plastic jerrycans and 200 kg barrels

Technical Properties	
Appearance	: Light brown colored liquid
Liquid Density	: ~ 1.13 kg/L (20°C)
Corrosive Behavior	: Not corrosive
Chloride Ion Content	: < 0.1%
Application Temperature	: All weather conditions suitable for pouring concrete
Working Time Inside The Mixture	: 50 minutes

AQUASTOP®

Rapid Setting Powder Plugging Mortar

Description:
Polymer-reinforced powder waterproofing material with special type cement and chemical additives. It **hardens within 3 - 4 minutes** when it reacts with water and used in the waterproofing and repairement of **active water leaks**. It provides high adherence.

Application Areas:
- Indoor and outdoor,
- All kinds of mineral based surfaces,
- Waterproofing of active water leakages,
- Plugging of existing water leaks before waterproofing,
- Repair of static cracks,
- Groundworks,
- Plugging tie rod holes inside molds,
- Waterproofing of basements from inside,
- Chamfering corners to stop water.

Advantages:
- Hardens quickly and provides water impermeability. Does not crack.
- Cement based materials can be applied on it after 15 - 20 minutes.
- Does not shrink, does not leak water.
- Forms a mortar that sets quickly and plugs water leaks easily.
- Stops water flow very quickly.
- Easy to use, non-toxic.
- Does not contain chloride, does not corrode steel reinforcement.

Consumption:
Appr. 2 kg for 1 L of volume

Packaging:
5 kg plastic buckets

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.15 kg/L
Water Mixing Ratio	: 1.20 - 1.45 L water / 5 kg powder
Setting Time	: Appr. 3 - 4 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 30 minutes ≥ 6 N/mm^2 (TS EN 12190) 24 hours ≥ 10 N/mm^2 (TS EN 12190) 28 days ≥ 30 N/mm^2 (TS EN 12190)
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

AQUACEMENT® 2K 251

Double Component Super Elastic Waterproofing Material

Description:
Cement and **acrylic based, super-elastic,** double component waterproofing material which can **bridge cracks.** Components must be mixed to provide waterproofing. Resistant to **positive** and **negative** water pressure.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Waterproofing areas subject to slight vibrance and movements such as groundwork, retaining walls and basement,
- Water tanks, swimming pools (under the coating),
- Waterproofing of terrace roofs and balconies (under the coating),
- Elevator pits,
- Cisterns, irrigation channels, manholes, concrete pipes,
- Wet areas such as bathrooms and kitchens,
- Facilities such as thermal springs, Turkish baths,
- Waterproofing of concrete flower receptacle.

Advantages:
- Can cover cracks up to 1.50 mm when applied minimum 3 mm at +23°C, up to 1.75 mm when a mesh is used between the layers (EN 1602-7). Its crack bridging property is above 0.75 mm even at -5°C.
- Resistant to negative (1 bar) and positive (5 bars) water pressure.
- Easy to apply on horizontal and vertical surfaces with a brush, roller, trowel or spraying machine.
- Not affected by sudden temperature changes when cured. Resistant to freeze-thaw cycle.
- Provides seamless and jointless waterproofing.
- Provides high-performing waterproofing.
- Elastic, does not shrink or crack.
- Water vapor permeable, allows the concrete to breathe.
- Non-toxic, perfect for water tanks.
- Forms a perfect waterproofing layer under ceramic and screed, due to its flexibility and high bonding property.
- Protects concrete surfaces from carbonization and chloride.

Consumption:
1.25 - 1.50 kg/m^2 on each layer, in 1 mm thickness.
It is recommended to apply minimum 2 layers (2.5 - 3 kg/m^2).
For stronger protection, it is recommended to apply 3 layers (3.75 - 4.5 kg/m^2).

Packaging:
Component A: 25 kg kraft bags
Component B: 10 kg plastic jerrycans

Technical Properties	
Appearance	: A: Grey colored fine powder B: White colored liquid
Density	: A: ~1.40 kg/L B: ~1.04 kg/L
Mixing Ratio	: 10 kg liquid / 25 kg powder
Pot Life	: 30 minutes
Application Temperature	: Between +5°C and +35°C
Flexibility	: Very good
Resistance to Pressurized Water	: 5 bars positive (DIN 1048) 1 bar negative (EN 14891)
Tensile Adhesion Strength	: ≥ 1 N/mm^2 (EN 1542) (28 days)
Capillary Water Absorption and Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3) 0.018 kg/(m^2.h$^{0.5}$) (TS 4045)
Resting Period	: 3 - 5 minutes
Time to Use	: Mechanical Strength: 3 days Water Impermeability: 7 days
Time to Cover	: 3 days
Service Temperature	: Between -20°C and +80°C

AQUACEMENT® 2K 250

Double Component Super Elastic Waterproofing Material

Description:
Cement and **acrylic** based, **super elastic**, double component waterproofing material. Components must be mixed to provide waterproofing. Resistant to **positive** water pressure.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Water tanks and swimming pools (under the coating),
- Waterproofing of groundwork, retaining walls and basements,
- Waterproofing of terrace roofs and balconies (under the coating),
- Cisterns, irrigation channels, manholes, concrete pipes,
- Wet areas such as bathrooms and kitchens,
- Facilities such as thermal springs, Turkish baths,
- Waterproofing of concrete flower receptacle,
- Bonding of coating materials, ceramic and granite.

Advantages:
- Easy to apply on horizontal and vertical surfaces with a brush, roller, trowel or spraying machine.
- Provides seamless and jointless waterproofing.
- Provides high-performing waterproofing.
- Very flexible, does not shrink or crack.
- Water vapor permeable, allows the concrete to breathe. Non-toxic, perfect for water tanks.
- Forms a perfect waterproofing layer under ceramic and screed thanks to its flexibility and high bonding property.
- Protects concrete surfaces from carbonization and chloride.

Consumption:
1.75 kg/m^2 on each layer for 1 mm thickness. It is recommended to apply minimum 2 layers (3.5 kg/m^2).
For higher protection, it is recommended to apply 3 layers (4.5 - 5.5 kg/m^2).

Packaging:
Component A: 25 kg kraft bags
Component B: 10 kg plastic jerrycans

Approved by METU Chemical Eng. Dept. according to BS 6920 Standard for potable water contact compatibility Report no: 2009.03.04.718/03

Technical Properties	
Appearance	: A: Grey colored fine powder B: White colored liquid
Density	: A: ~1.30 kg/L B: ~1.03 kg/L
Mixing Ratio	: 10 kg liquid / 25 kg powder
Pot Life	: 30 minutes
Application Temperature	: Between +5°C and +35°C
Flexibility	: Very good
Resistance to Pressurized Water	: 5 bars positive (DIN 1048)
Capillary Water Absorption and Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3) 0.018 kg/(m^2.h$^{0.5}$) (TS 4045)
Resting Period	: 3 - 5 minutes
Time to Use	: Mechanical Strength: 3 days Water Impermeability: 7 days
Time to Cover	: 3 days
Service Temperature	: Between -20°C and +80°C

AQUACEMENT® 2K 207

Double Component Super Elastic Waterproofing Material

Description:
Cement and **acrylic** based, **super elastic**, double component waterproofing material. Components must be mixed to provide waterproofing. Resistant to **positive** water pressure.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Water tanks and swimming pools (under the coating),
- Waterproofing groundwork, retaining walls and basements,
- Waterproofing of terrace roofs and balconies (under the coating),
- Cisterns, irrigation channels, manholes, concrete pipes,
- Wet areas such as bathrooms and kitchens,
- Facilities such as thermal springs, Turkish baths,
- Waterproofing of concrete flower receptacle,
- Bonding of ceramics, granite and coating materials.

Advantages:
- Easy to apply on horizontal and vertical surfaces with a brush, roller, trowel or spraying machine.
- Provides seamless and jointless waterproofing.
- Provides high-performing waterproofing.
- Elastic, does not shrink or crack.
- Water vapor permeable, allows the concrete to breathe.
- Non-toxic, perfect for water tanks.
- Forms a perfect waterproofing layer under ceramic and screed, due to its flexibility and high bonding property.
- Protects concrete surfaces from carbonization and chloride.

Consumption:
1.75 kg/m^2 on each layer for 1 mm thickness. It is recommended to apply minimum 2 layers (3.5 kg/m^2).
For higher protection, it is recommended to apply 3 layers (4.5 - 5.5 kg/m^2).

Packaging:
Component A: 20 kg kraft bags
Component B: 7 kg plastic jerrycans

Approved by METU Chemical Eng. Dept. according to BS 6920 Standard for potable water contact compatibility Report no: 2009.03.04.718/03

Technical Properties	
Appearance	: A: Grey colored fine powder B: White colored liquid
Density	: A: ~1.30 kg/L B: ~1.03 kg/L
Mixing Ratio	: 7 kg liquid / 20 kg powder
Pot Life	: 30 minutes
Application Temperature	: Between +5°C and +35°C
Flexibility	: Very good
Resistance to Pressurized Water	: 5 bars positive (DIN 1048)
Capillary Water Absorption and Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3) 0.018 kg/(m^2.h$^{0.5}$) (TS 4045)
Resting Period	: 3 - 5 minutes
Time to Use	: Mechanical Strength: 3 days Water Impermeability: 7 days
Time to Cover	: 3 days
Service Temperature	: Between -20°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

AQUACEMENT® 2K 205

Double Component Semi - Elastic Waterproofing Material

Description:
Cement and **acrylic** based, **semi-elastic**, double component waterproofing material. Components must be mixed to provide waterproofing. Resistant to **positive** water pressure.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Wet areas such as bathrooms and kitchens,
- Waterproofing of terrace roofs and balconies (under the coating),
- Waterproofing of concrete flower receptacle.

Advantages:
- Easy to apply on horizontal and vertical surfaces with a brush, roller, trowel or spraying machine.
- Provides seamless and jointless waterproofing.
- Water impermeable and semi-elastic.
- Water vapor permeable, allows the concrete to breathe.
- Non-toxic, can be used indoors.
- Forms an economical waterproofing layer under ceramics and screed due to its high bonding property and semi-elastic structure.

Consumption:
1 - 1.5 kg/m^2 on each layer for 1 mm thickness. It is recommended to apply minimum 2 layers (2 - 3 kg/m^2).
For stronger protection, it is recommended to apply 3 layers (3 - 4.5 kg/m^2).

Packaging:
Component A: 20 kg kraft bags
Component B: 5.4 kg plastic jerrycans

Approved by METU Chemical Eng. Dept. according to BS 6920 Standard for potable water contact compatibility Report no: 2009.03.04.718/03

Technical Properties	
Appearance	: A: Grey colored fine powder B: White colored liquid
Density	: A: ~1.30 kg/L B: ~1.02 kg/L
Mixing Ratio	: 5.4 kg liquid / 20 kg powder
Pot Life	: 20 minutes
Application Temperature	: Between +5°C and +35°C
Flexibility	: Medium
Resistance to Pressurized Water	: 2 bars positive (DIN 1048)
Capillary Water Absorption and Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3) 0.018 kg/(m^2.h$^{0.5}$) (TS 4045)
Resting Period	: 3 - 5 minutes
Time to Use	: Mechanical Strength: 3 days Water Impermeability: 7 days
Time to Cover	: 3 days
Service Temperature	: Between -10°C and +70°C

AQUACEMENT® UV500

Double Component Super Elastic Waterproofing Material - UV Resistant (White)

Description:
White cement and **acrylic** based, **super-elastic**, double component waterproofing material with **advanced UV resistance**. Components must be mixed to provide waterproofing. Resistant to **positive** water pressure.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Waterproofing of non trafficable inclined terrace roofs and balconies,
- Wet areas such as bathrooms and kitchens,
- Water tanks, cisterns, swimming pools,
- Waterproofing of groundworks, retaining walls and basements,
- Irrigation canals, manholes, concrete pipes,
- Facilities such as thermal springs, Turkish baths,
- Waterproofing of concrete flower receptacle.

Advantages:
- Elastic, does not shrink and crack, **resistant to UV.**
- Provides safe waterproofing of terrace roofs which will not be coated and will be exposed to light loads.
- Easy to apply on horizontal and vertical surfaces with a brush, roller, trowel or spraying machine.
- Provides seamless and jointless waterproofing.
- Provides high-performing waterproofing.
- Water vapor permeable, allows the concrete to breathe.
- Non-toxic, perfect for water tanks.
- Forms a perfect waterproofing layer under ceramic and screed due to its flexibility and high bonding property. Protects concrete surfaces from carbonization and chloride.

Consumption:
1.75 kg/m^2 on each layer for 1 mm thickness. It is recommended to apply minimum 2 layers (3.5 kg/m^2).
For higher protection, it is recommended to apply 3 layers (4.5 - 5.5 kg/m^2).

Packaging:
Component A: 20 kg kraft bags
Component B: 7 kg plastic jerrycans

Approved by METU Chemical Eng. Dept. according to BS 6920 Standard for potable water contact compatibility Report no: 2009.03.04.718/03

Technical Properties	
Appearance	: A: White colored fine powder B: White colored liquid
Density	: A: ~1.30 kg/L B: ~1.03 kg/L
Mixing Ratio	: 7 kg liquid / 20 kg powder
Pot Life	: 30 minutes
Application Temperature	: Between +5°C and +35°C
Flexibility	: Very good
Resistance to Pressurized Water	: 5 bars positive (DIN 1048)
Capillary Water Absorption and Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3) 0.018 kg/(m^2.h$^{0.5}$) (TS 4045)
Resting Period	: 3 - 5 minutes
Time to Use	: Mechanical Strength: 3 days Water Impermeability: 7 days
Time to Cover	: 3 days
Service Temperature	: Between -20°C and +80°C

AKRILAN® 600

Acrylic Based UV Resistant Flexible Liquid Membrane

Description:
Acrylic (elastomeric) resin based, single component, **UV resistant**, flexible waterproofing material.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- On various surfaces such as reinforced concrete, galvanized, zinc, aluminium and sheet iron,
- Wet areas such as bathrooms and kitchens,
- Flat and inclined roofs,
- Chimney sides, hidden gutters, eaves, gutters,
- Terraces and balconies.

Advantages:
- Ready-to-use.
- Very elastic, even at low temperatures.
- Applied easily and quickly with a brush or a roller.
- Provides high adherence.
- Water vapor permeable, allows the surface to breathe.
- Can be over painted with waterborne paints.
- **Resistant to UV**.
- Can be produced in various colors upon request.
- Does not form joints.
- Does not contain solvent, non-toxic. Suitable for use in contact with potable water.

Consumption:
1.4 kg/m^2 on each layer for 1 mm thickness.
It is recommended to apply minimum 2 layers.
For stronger protection, it is recommended to apply 3 layers.

Packaging:
5 kg and 15 kg plastic buckets

Approved by METU Chemical Eng. Dept. according to BS 6920 Standard for potable water contact compatibility Report no: 2009.03.04.718/04

Technical Properties	
Appearance	: White colored acrylic copolymer liquid
Liquid Density	: ~ 1.35 kg/L
Application Temperature	: Between +5°C and +35°C
Elongation at Break	: > 600% 14 days
Capillary Water Absorption and Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3)
CO_2 Permeability	: CO_2 S_D > 50 m (EN 1062-6)
Water Vapor Permeability	: Class I S_D < 5 (EN ISO 7783-2)
Waiting Time Between Layers	: 4 hours (20°C)
Time to Use	: 5 - 7 days
Service Temperature	: Between -20°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

AKRILAN® 600E

Acrylic Based Liquid Membrane

Description:
Acrylic (elastomeric) resin based, single component flexible waterproofing material.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- On various surfaces such as reinforced concrete, galvanized, zinc, aluminium and sheet iron,
- Wet areas such as bathrooms and kitchens,
- Flat and inclined roofs,
- Terraces and balconies which are not directly exposed to the sun.

Advantages:
- Ready-to-use.
- Elastic.
- Applied easily and quickly with a brush or a roller.
- Provides high adherence.
- Water vapor permeable, allows the surface to breathe.
- Can be overpainted with waterborne paints.
- Can be produced in various colors upon request.
- Does not form joint.
- Does not contain solvent, non-toxic. Suitable for use in contact with potable water.

Consumption:
1.4 kg/m^2 on each layer for 1 mm thickness.
It is recommended to apply minimum 2 layers.
For stronger protection, it is recommended to apply 3 layers.

Packaging:
5 kg and 15 kg plastic buckets

Technical Properties	
Appearance	: White colored acrylic copolymer liquid
Liquid Density	: ~ 1.35 kg/L
Application Temperature	: Between +5°C and +35°C
Elongation at Break	: > 300% (14 days)
Capillary Water Absorption and Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3)
CO_2 Permeability	: CO_2 S_D > 50 m (EN 1062-6)
Water Vapor Permeability	: Class I S_D < 5 (EN ISO 7783-2)
Waiting Time Between Layers	: 5 hours (20°C)
Time to Use	: 5 - 7 days
Service Temperature	: Between -20°C and +80°C

AQUALON®

Colorless Surface Protector and Water Repellent

Description:
Silicone based, **solventborne colorless surface protector** and **water repellent** material which prevents rainwater to flow in, by penetrating underneath the surface.

Application Areas:
- Exterior facades of buildings, vertical surfaces,
- Semi absorbent surfaces such as concrete, plaster, slate stone,
- Absorbent surfaces such as brick, gas concrete, travertine, natural stone,
- Restoring and protecting historical buildings from weather conditions.

Advantages:
- Easy to apply with a brush, roller or a gun.
- Keeps the surface dry and clean by repelling water due to the silicone it contains.
- Transparent, perfect material on surfaces where original appearance is required to be protected.
- The surface washes itself with the rain water thanks to its fast water repellent property.
- Penetrates the surface very well, does not generate any layer on the surface.
- Allows the surface to breath.
- Alkaline and UV resistant.
- Reduces heat loss by keeping the walls dry.
- Prevents the surface from discoloring.
- Prevents dusting.

Consumption:
200 - 600 g/m^2 (Consumption may increase on surfaces where the water absorption is high.)

Packaging:
5 L and 17 L tin cans

Technical Properties	
Appearance	: Transparent liquid
Liquid Density	: ~ 0.80 kg/L
Application Temperature	: Between +5°C and +25°C
Flash Point	: +70°C
Drying Time	: 24 hours
Service Temperature	: Between -20°C and +80°C

IZO-CERA®

Colorless Surface Protector and Water Repellent

Description:
Silicone based **colorless surface protector** and **water repellent** material which prevents water inflow by penetrating underneath the surface. Waterborne, does not contain solvent.

Application Areas:
- Interior and exterior facades of buildings, preferably vertical surfaces,
- Repelling the water in joints of coating materials such as ceramic, tile, glass mosaic,
- Outer areas such as balconies, terraces,
- Wet areas such as bathrooms and kitchens,
- Semi absorbent surfaces such as concrete, plaster, slate stone,
- Absorbent surfaces such as brick, gas concrete, travertine, natural stone,
- Restoring and protecting historical buildings from weather conditions.

Advantages:
- Easy to apply with a brush.
- Safe to use indoor, in wet areas such as bathrooms and kitchens as it does not contain solvent.
- Keeps the surface dry and clean by repelling water with the silicone it contains.
- Transparent, perfect material on surfaces where original appearance is required to be protected.
- Penetrates the surface very well, does not generate any layer on the surface.
- Does not prevent the surface to breathe.
- Alkaline and UV resistant.
- Reduces heat loss by keeping the walls dry.

Consumption:
200 - 700 g/m^2 (Consumption may increase on surfaces where the water absorption is high.)

Packaging:
1 kg and 20 kg plastic bottles

Technical Properties	
Appearance	: White colored liquid
Liquid Density	: ~ 1.00 kg/L
Application Temperature	: Between +5°C and +35°C
Drying Time	: 24 hours
Service Temperature	: Between -20°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

BITUMFIX® WP BASIC

Bitumen Based Membrane Primer

Description:
Ready-to-use **primer** produced by mixing water and **bitumen** by special methods. It is used as a primer prior to the applications of any type of bitumen based products. After the evaporation of the water in its content, it forms a layer which increases adhesion.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- As a primer prior to the application of any type of bitumen based membrane or bitumen based waterproofing materials applied with brush.

Advantages:
- Provides firmer and gap-free adhesion of the bitumen based coatings thanks to its superior adhesion properties.
- Ready to use and easy to apply.
- Environmentally friendly as it is waterborne.
- Safe to use indoor since it does not contain flammable and toxic materials.
- Cold applied, does not require heating.

Consumption:
250 g/m^2 on each layer

Packaging:
16 kg plastic buckets

Technical Properties	
Appearance	: Black colored emulsion
Liquid Density	: ~ 1 kg/L
Application Temperature	: Between +5°C and +35°C
Solid Content	: 25% ± 5
Softening Temperature	: +70°C
Drying Time	: Dry to Touch: 1 hour Complete Drying: 5 - 6 hours Test: 8 days
Service Temperature	: Between -10°C and +70°C

BITUMFIX® W

Bitumen Based Waterproofing Material - Waterborne

Description:
Modified bitumen and rubber based, single component, **waterborne** waterproofing material. It bonds on the surface strongly when it is cured and generates a layer resistant to water and moisture.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Waterproofing the foundation and shear walls of reinforced concrete structures against ground moisture and seepage water,
- Bonding of thermal insulation boards to bitumen based membranes,
- Underneath coatings in terrace insulation.

Advantages:
- Can be used as a primer when thinned with water.
- Does not contain solvent, environmentally friendly.
- Safe to use indoor since it does not contain flammable and toxic materials.
- Bonds on moist surfaces as well.
- Provides seamless and jointless waterproofing.
- Resistant to positive water pressure.
- Fills capillary cracks.
- Cold applied, dries quickly.
- Does not sag on vertical surfaces.

Consumption:
800 -1000 g/m^2 on each layer (It is recommended to apply minimum 2 layers.)

Packaging:
16 kg plastic buckets

Technical Properties	
Appearance	: Black colored emulsion enhanced with elastomeric polymer resin additive
Liquid Density	: ~ 1.20 kg/L
Application Temperature	: Between +5°C and +35°C
Solid Content	: 70 - 75%
Softening Temperature	: +70°C
Drying Time	: Dry to Touch: 1 hour Complete Drying: 5 - 6 hours Test: 8 days
Service Temperature	: Between -10°C and +70°C

BITUMFIX® ER 2K

Bitumen - Rubber and Cement Based Double Component Waterproofing Material

Description:
Polymer modified bitumen-rubber based, **cement cured**, double component, elastic and waterborne waterproofing material. Thixotropic, flexible after curing, has high adhesion properties and offers long-term durability.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Protecting and waterproofing groundwork, retaining walls and shear walls,
- Places such as basement and cellars,
- Underneath coatings in terrace insulation.

Advantages:
- Provides seamless and jointless waterproofing.
- Economical.
- Provides good adherence on dry and slightly moist surfaces.
- Offers high performance in waterproofing.
- Permanently elastic, fills capillary cracks.
- Resistant to positive water pressure.
- Safe to use indoor since it does not contain flammable or toxic materials.
- Resistant to salts and weak acids.
- Plaster and mortar can be applied on it, provided that it is sandblasted.
- Easy to prepare and apply. Covers non-structural cracks easily.
- Thermal insulation boards such as EPS, XPS can be bonded directly on BITUMFIX ER 2K.
- Cold applied, dries quickly.

Consumption:
1 - 1.5 kg/m^2 on each layer for 1 mm thickness. Minimum of 2 - 3 coats is recommended.

Packaging:
Sets of 32 kg plastic buckets (Liquid component in plastic bucket of 24 kg and powder in bag of 8 kg)

Technical Properties	
Appearance	: A: Brown polymer-modified bitumen-rubber (turns black after drying) B: Cement-based grey powder
Density	: A: ~ 1.15 kg/L B: ~ 1.45 kg/L
Mixture Density	: 1.20 kg/L
Mixing Ratio	: 24 kg liquid / 8 kg powder
Solid Content	: 68% ± 2 (mixture)
Application Temperature	: Between +5°C and +35°C
Pot Life	: ~ 1 hour
Curing Time	: Dry to Touch: 1 - 4 hours Complete Drying: 8 - 24 hours Test: 8 days
Service Temperature	: Between -10°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

BITUMFIX® PU 1K

Bitumen and Polyurethane Based Single Component Waterproofing Material

Description:
Bitumen and polyurethane based, **single component**, protective waterproofing material which is cured with the moisture in the air. Thanks to the polyurethane in its content, it bonds strongly to the surface and generates a layer that is more resistant to water and moisture.

Application Areas:
- Outdoor,
- Horizontal and vertical surfaces,
- On surfaces of materials such as concrete, stone, fiber cement and metal,
- Waterproofing the foundation and shear walls of reinforced concrete structures against ground moisture and seepage water,
- Canals, flumes and hidden gutters (excluding PVC based rain gutters),
- Underneath coatings in waterproofing of balconies, terraces, roofs and green roofs.

Advantages:
- Ready to use and easy to apply.
- Does not sag on vertical surfaces.
- Has high adherence to the surface. Adheres very well even on old coatings.
- Forms a protective layer on the surface and provides long-term protection.
- Has high tensile, tear, impact and abrasion resistance and has excellent mechanical properties.
- Highly resistant to chemicals, mold and extreme weather conditions.
- Provides seamless, jointless and protective waterproofing.
- Covers shrinkage cracks easily, elastic material.
- Resistant to plant roots.

Consumption:
1.5 - 2 kg/m^2 on each layer (Recommended to apply at least two layers.)

Packaging:
25 kg tin buckets

Technical Properties	
Appearance	: Black colored emulsion
Liquid Density	: ~ 1.30 kg/L
Application Temperature	: Between +5°C and +35°C
Viscosity	: 2500 - 3500 cP (25°C)
Solid Content	: 80 - 85%
Ignition Point	: > 30°C
Bonding to Concrete	: ~ 2 N/mm^2
Tensile Strength	: ~ 1.5 N/mm^2
Elongation at Break	: > 400% (20°C)
Water Vapor Permeability	: 25.8 g/(m^2.d) (TS EN ISO 7783:2011)
Dry Time Between Layers	: ~ 12 hours
Walk on Time	: ~ 72 hours
Service Temperature	: Between -30°C and +80°C

BITUMFIX® PU 2K

Bitumen and Polyurethane Based Double Component Waterproofing Material

Description:
Bitumen and polyurethane based, **double component**, protective, super elastic waterproofing material which is cured fast. Thanks to the polyurethane in its content, it bonds strongly to many surfaces and generates a layer that is more resistant to water and moisture.

Application Areas:
- Outdoor,
- Horizontal and vertical surfaces,
- On surfaces of materials such as concrete, stone, fiber cement and metal,
- Waterproofing the foundation and shear walls of reinforced concrete structures against ground moisture and seepage water,
- Bridges, canals, flumes and hidden gutters (excluding PVC based rain gutters),
- Waterproofing of retaining walls and waterproofing of water tanks from outside,
- Underneath the coatings in waterproofing of balconies, terraces, roofs and green roofs.

Advantages:
- Cold applied.
- Does not blister even when applied thick.
- Cures fast.
- Has crack bridging ability, covers cracks. Very elastic and has high elongation ability.
- Resistant to weather conditions.
- Bonds to many surfaces, adheres well on the surface.
- Has high tensile, tear, impact and abrasion resistance and has excellent mechanical properties.
- Highly resistant to many chemicals.
- Forms a protective layer on the surface as a water vapor barrier, protects for many years.
- Provides seamless, jointless and protective waterproofing.
- Resistant to plant roots.

Consumption:
1.5 - 2 kg/m^2 on each layer (Recommended to apply at least two layers. Consumption varies depending on the absorption and roughness of the surface.)

Packaging:
Component A: 15 kg tin buckets
Component B: 15 kg tin buckets

Technical Properties	
Appearance	: Component A: Black colored emulsion Component B: Transparent viscous liquid
Density	: Component A: 0.95 kg/L Component B: 1.05 kg/L
Application Temperature	: Between +5°C and +35°C
Bonding to Concrete	: ~ 2 N/mm^2
Tensile Strength	: 1.5 N/mm^2
Elongation at Break	: 2000% (20°C)
Water Vapor Permeability	: 2.55 g/(m^2.d) (TS EN ISO 7783:2011)
Hardness (Shore A)	: 40
Dry Time Between Layers	: ~ 50 minutes
Pot Life	: 30 - 45 minutes (20°C)
Drying Time	: 4 - 6 hours (ASTM C 679-03)
Walk on Time	: ~ 48 hours
Service Temperature	: Between -30°C and +80°C

POLAN® A

Polyurethane Floor Primer

Description:
Polyurethane based, single component, solventborne, transparent and ready to use **primer** which dries fast, developed for rough and absorbent surfaces. It forms a middle layer to provide the coating adhere better.

Application Areas:
- Indoor and outdoor,
- On concrete, plaster and absorbent surfaces,
- As a primer prior to the coating on highly uneven or damp surfaces,
- As an adhesion increasing primer on floors, under polyurethane, MS or hybrid based waterproofing materials, floor coatings and top coat paints,
- Surfaces with PVC, EPDM, bitumen and other polymeric membranes,
- As a primer for polyurethane based parquet adhesive,
- Fixing the dusting and crumbling surfaces,
- Increasing the abrasion resistance of mineral based surfaces.

Advantages:
- Fills the pores and non-structural capillary cracks on concrete or similar surfaces, penetrates deeply. Increases both physical and chemical integration, provides longer lasting adhesion and permanency.
- Forms bonds between voids on the surface and provides an integral adhesion between the product and the surface.
- Single component, solventborne. It is cured in chemical reaction with the moisture. Transparent and forms a strong and durable sublayer when it is cured.
- Not affected from temperature changes between -30°C and +120°C.
- Resistant to salt water, salt solutions, bases, diluted acids, aliphalic solvents, gasoline and mineral oils.
- Reduces the consumption of the last layer coating by filling the voids on the surface and provides a more even appearance of the coating.

Consumption:
150- 300 g/m^2 in single layer (Varies depending on the absorption and roughness of the surface)

Packaging:
4 kg and 25 kg tin buckets

Technical Properties	
Appearance	: Transparent liquid
Density	: ~ 1.0 kg/L
Application Temperature	: Between +5°C and +30°C
Abrasion Resistance	: Resistant
Water Resistance	: Water impermeable
Drying Time	: 2 - 5 hours
Service Temperature	: Between -30°C and +120°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

POLAN® 500

Polyurethane Coating and Waterproofing Material

Description:
Polyurethane based, single component, ready to use, **UV resistant**, walkable, solventborne liquid **coating** and **waterproofing** material.

Application Areas:
- Outdoor,
- Surfaces such as concrete, stone, corrugated panels, metal,
- Waterproofing of terrace roofs, hidden gutters,
- Protecting polyurethane foam from UV radiation.

Advantages:
- Applied perfectly on all types of surfaces, even on older coatings.
- **Single component** and solventborne. Easy to apply, elastic. Can cover capillary cracks.
- Resistant to sunlight. Stable to depolymerization.
- Provides seamless and jointless waterproofing.
- Highly resistant to aging, diluted acids, bases, salt, chemicals, mould and weather conditions. Can keep initial properties for years.
- Has high solid content.
- Resistant to plant roots.
- Since it is permanently elastic, no cracking can be observed later on the surfaces applied. After curing, it can be walked on.
- Applied on single or double component polyurethane materials for protection.

Consumption:
500 - 800 g/m^2 on each layer (Varies depending on the absorption and roughness of the surface.) Minimum 2 layers are applied.

Packaging:
3 kg and 25 kg tin buckets

Standard colors

Off White, Grey

Technical Properties	
Appearance	: Off white or grey colored liquid emulsion
Density	: ~ 1.40 kg/L
Application Temperature	: Between +5°C and +30°C
Solid Content	: ~ 90%
Bond Strength by Pull-off	: ≥ 0.8 N/mm^2 (TS EN 1542)
Elongation at Break	: > 600% (7 days) (DIN 53504)
Tensile Strength	: 2.30 N/mm^2
100% Modulus	: 2.10 N/mm^2
Hardness (Shore A)	: 65 (7 days)
Walk-on Time	: 8 - 12 hours (+23°C)
Service Temperature	: Between -30°C and +90°C

POLAN® 620

Polyurethane Based Double Component Waterproofing Material

Description:
Polyurethane based, double component, **solvent-free** liquid waterproofing material.

Application Areas:
- Indoor and outdoor (under the coating),
- Horizontal and vertical surfaces,
- Surfaces such as concrete, stone, wood and metal,
- Water tanks, cisterns.

Advantages:
- Safe to use indoor since it is solvent-free. Does not mix with potable water.
- Easy to apply with a brush or a roller.
- Bonds perfectly on all types of surfaces.
- No cracking can be observed later on the surfaces applied.
- Provides seamless and jointless waterproofing.
- Not affected by temperature changes between -30°C and +90°C.
- Resistant to salt water, salt solutions, bases, diluted weak acids (with maximum 10% acidity).
- Resistant to aging.

Consumption:
600 g/m^2 on each layer (Minimum 2 layers are recommended.)

Packaging:
Component A: 5 kg tin buckets
Component B: 1 kg tin buckets

Standard colors

Pool Blue, Off White

Approved by METU Chemical Eng. Dept. for potable water contact compatibility Report no: 2009.03.04.718/05

Technical Properties	
Appearance	: Pool blue or off white colored liquid emulsion
Mixture Density	: ~ 1.35 kg/L
Mixing Ratio	: 5 kg Component A / 1 kg Component B
Application Temperature	: Between +5°C and +30°C
Time to Use Mixture	: 30 - 45 minutes
Walk-on Time	: 24 hours (+23°C)
Complete Hardening	: 3 days
Service Temperature	: Between -30°C and +90°C

POLAN® 600 INVISIBLE

Polyurethane Transparent Coating and Waterproofing Material

Description:
Polyurethane based, single component, liquid, ready-to-use, elastic, **UV resistant**, walkable, solventborne, **transparent** top coat and waterproofing material.

Application Areas:
- Outdoor,
- Provides waterproofing at balconies and terraces with light pedestrian traffic which are coated with materials such as glazed tile, ceramic, natural stone, marble and floor tiles, without changing the appearance,
- Reinforced concrete surfaces, plasters and screed floors,
- Industrial floor coatings,
- Mosaics and tile mosaics,
- Glass and glass bricks,
- Metals, such as iron, steel and aluminum,
- CTP, PVC and polycarbonate roof coatings,
- Wooden doors and window frames as a protective coating and waterproofing material.

Advantages:
- Bonds perfectly on all types of surfaces, even on older coatings.
- Allows waterproofing without damaging and changing the appearance of existing coating thanks to its transparency. Decorative and resistant to abrasion of pedestrian traffic.
- Resistant to UV and does not turn to yellow.
- Provides seamless and jointless waterproofing.
- Highly resistant to aging, diluted acids, bases, salt, chemicals, mould and weather conditions. Can keep its initial properties for years.
- No cracking can be observed later on the surfaces applied. After curing, it can be walked on.
- Resistant to water and frost when cured.

Consumption:
Approximately 250 - 300 g/m^2 on each coat (Varies depending on the absorption and roughness of the surfaces.) Minimum 2 layers are applied.

Packaging:
2.5 kg and 7.5 kg tin buckets

Technical Properties	
Appearance	: Transparent liquid
Density	: ~ 1.0 kg/L
Application Temperature	: Between +5°C and +30°C
Hardness (Shore D)	: 35 ± 5
Film Formation Time	: 80 ± 30 minutes
Skin Formation Time	: 6 - 8 hours
Waiting Time Between Coats	: 8 - 24 hours
Walk-on Time	: 24 hours
Complete Curing Time	: 7 days
Service Temperature	: Between -30°C and +80°C

POLAN® 700

Pure Polyurea Coating and Waterproofing Material

Description:
100% pure polyurea based, double component, **flexible** spray coating and waterproofing material **with high reactivity**. It can **cover the cracks**.

Application Areas:
- Indoor and outdoor,
- Residential buildings, shopping malls and business centers,
- Coating terraces, balconies and roofs,
- Waterproofing and coating of roads open to vehicle traffic, parking lot and garage floors,
- Waterproofing of canals, tunnels, pipelines, water tanks, potable water tanks,
- Industrial surfaces, factory floors,
- Protection of medium and large size parts in metal industry against abrasion and corrosion,
- Coating of load bearing surfaces in commercial vehicles,
- Waterproofing of decorative pools and swimming pools.

Advantages:
- Environmentally friendly, solvent-free.
- Elastic, covers capillary cracks.
- Convenient for heavy vehicle traffic, can also be used in floors of industrial zones.
- Allows application in horizontal and vertical surfaces.
- Cures fast, easy to apply.
- Provides seamless and jointless waterproofing.
- Offers solution for hard to reach places such as corners.
- Strongly adheres to the floor.
- Resistant to chemicals and corrosion.
- Has high tear strength.
- Mechanically resistant, convenient for use in harsh conditions.
- Highly resistant to abrasion and scratches.

Consumption:
1.1 - 1.2 kg/m^2 in single layer for 1 mm thickness (Varies depending on the absorption and roughness of the surface.) Apply minimum 2 layers. Mix according to the ratios given in Technical Properties table.

Packaging:
Component A: 220 kg barrels
Component B: 200 kg barrels

Technical Properties	
Appearance	: Comp. A: Light yellow colored liquid Comp. B: Grey colored liquid
Density	: Component A: 1.10 - 1.12 kg/L Component B: 1.00 - 1.05 kg/L (ASTM D 4052)
Mixing Ratio (A-B)	: In weight Component A: 110 Component B: 100 In volume Component A: 100 Component B: 100
Machine Application Temperature	: Between +70°C and +80°C
Machine Application Pressure	: Between 120 and 200 bars
Application Temperature	: Between +5°C and +30°C
Solid Content	: 100%
Tensile Strength	: 15 - 20 N/mm^2 (ASTM D 412)
100% Modulus	: 5 - 8 N/mm^2 (ASTM D 412)
Elongation at Break	: 500 - 600% (ASTM D 412)
Tear Strength	: 30 - 55 N/mm (ASTM D 624)
Gel Time	: 3 - 5 seconds
Tack Free Time	: 13 - 15 seconds
Hardness (Shore A)	: 90 - 100 (DIN 53505)
Walk-on Time	: 1 - 4 hours (+23°C)
Service Temperature	: Between -40°C and +200°C

POLAN® 710

Hybrid Polyurea Coating and Waterproofing Material

Description:
Hybrid polyurea based, double component, **flexible** spray coating and waterproofing material **with high reactivity**. It can **cover the cracks**.

Application Areas:
- Indoor and outdoor,
- Residential buildings, shopping malls and business centers,
- Coating terraces, balconies and roofs,
- Waterproofing and coating of roads open to vehicle traffic, parking lot and garage floors,
- Waterproofing of canals, tunnels, pipelines, water tanks,
- Industrial surfaces, factory floors,
- Protection of medium and large size parts in metal industry against abrasion and corrosion,
- Coating of load bearing surfaces in commercial vehicles,
- Waterproofing of decorative pools and swimming pools.

Advantages:
- Environmentally friendly, solvent-free.
- Elastic, covers capillary cracks.
- Convenient for heavy vehicle traffic.
- Allows application in horizontal and vertical surfaces.
- Cures fast, easy to apply.
- Provides seamless and jointless waterproofing.
- Offers solution for hard to reach places such as corners.
- Strongly adheres to the floor.
- Resistant to chemicals and corrosion.
- Has high tear strength.
- Mechanically resistant, convenient for use in harsh conditions.
- Highly resistant to abrasion.

Consumption:
1.1 - 1.2 kg/m^2 in single layer for 1 mm thickness (Varies depending on the absorption and roughness of the surface.) Apply minimum 2 layers. Mix according to the ratios given in Technical Properties table.

Packaging:
Component A: 220 kg barrels
Component B: 200 kg barrels

Technical Properties	
Appearance	: Comp. A: Light yellow colored liquid Comp. B: Grey colored liquid
Density	: Component A: 1.10 - 1.12 kg/L Component B: 1.00 - 1.05 kg/L (ASTM D 4052)
Mixing Ratio (A-B)	: In weight Component A: 110 Component B: 100 In volume Component A: 100 Component B: 100
Machine Application Temperature	: Between +70°C and +80°C
Machine Application Pressure	: Between 120 and 200 bars
Application Temperature	: Between +5°C and +30°C
Solid Content	: 100%
Tensile Strength	: 10 - 15 N/mm^2 (ASTM D 412)
100% Modulus	: 3 - 5.5 N/mm^2 (ASTM D 412)
Elongation at Break	: 400 - 500% (ASTM D 412)
Tear Strength	: 15 - 30 N/mm (ASTM D 624)
Gel Time	: 8 - 10 seconds
Tack Free Time	: 17 - 20 seconds
Hardness (Shore A)	: 85 - 95 (DIN 53505)
Walk-on Time	: 1 - 4 hours (+23°C)
Service Temperature	: Between -20°C and +120°C

POLAN® 750

Hybrid Polyurea Waterproofing Material

Description:
Hybrid polyurea based, double component, **flexible** waterproofing material **with high reactivity**. It can **cover the cracks**.

Application Areas:
- Indoor and outdoor,
- Residential buildings, shopping malls and business centers,
- Waterproofing terraces, balconies and roofs,
- Waterproofing of floors open to light pedestrian traffic,
- Waterproofing of canals, tunnels, pipelines, water tanks,
- Protection of small and medium size parts in metal industry against abrasion and corrosion,
- Waterproofing of load bearing surfaces in commercial vehicles,
- Waterproofing of decorative pools and swimming pools.

Advantages:
- Environmentally friendly, solvent-free.
- Elastic.
- Allows application in horizontal and vertical surfaces.
- Cures fast, applied easily.
- Provides seamless and jointless waterproofing.
- Offers practical solutions for narrow and difficult places.
- Strongly adheres to the surface.
- Resistant to chemicals and corrosion.
- Mechanically resistant, resistant to abrasion.

Consumption:
1.1 - 1.2 kg/m^2 in single layer for 1 mm thickness (Varies depending on the absorption and roughness of the surface.) Apply minimum 2 layers. Mix according to the ratios given in Technical Properties table.

Packaging:
Component A: 225 kg barrels
Component B: 200 kg barrels

Technical Properties	
Appearance	: Comp. A: Light yellow colored liquid Comp. B: Grey colored liquid
Density	: Component A: 1.10 - 1.12 kg/L Component B: 1.00 - 1.05 kg/L (ASTM D 4052)
Mixing Ratio (A-B)	: In weight Component A: 73 Component B: 100 In volume Component A: 70 Component B: 100
Machine Application Temperature	: Between +70°C and +80°C
Machine Application Pressure	: Between 120 and 200 bars
Application Temperature	: Between +5°C and +30°C
Solid Content	: 98 - 100%
Tensile Strength	: 7 N/mm^2 (ASTM D 412)
100% Modulus	: 2 - 3 N/mm^2 (ASTM D 412)
Elongation at Break	: 500 - 600% (ASTM D 412)
Tear Strength	: 9 - 10 N/mm (ASTM D 624)
Gel Time	: 10 - 12 seconds
Tack Free Time	: 17 - 20 seconds
Hardness (Shore A)	: 75 - 85 (DIN 53505)
Walk-on Time	: 1 - 4 hours (+23°C)
Service Temperature	: Between -20°C and +120°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

IMPERMO® PVC
Waterproofing Tape

Description:
Elastic, **thermoplastic** elastomer based **joint waterproofing tape** with **polyester** mesh carrier, used for waterproofing of construction and dilatation joints.

Application Areas:
- Indoor and outdoor,
- Wet areas such as pools, water tanks, bathrooms and toilets, before tile, ceramics and waterproofing applications,
- Pipe inlet-outlet details of water tanks, pools,
- Between layers of waterproofing materials applied by brush, on perpendicular corners at balconies and terraces,
- Waterproofing of dynamic (moving) cracks and construction joints on floors and shear walls.

Advantages:
- Provides reinforcement support when used with waterproofing materials applied by brush.
- Easy to cut and apply in all kinds of waterproofing application details.
- Not torn apart, resists against impacts and bending.
- Resistant to several chemicals.
- Economical.

Consumption:
Running meter

Packaging:
Rolls of 50 m
(2 different sizes: 100/50 mm and 120/70 mm)

Technical Properties	
Appearance	: Tape roll: blue-grey in the middle, white on the sides
Material Weight	: 27 g/m (100/50 mm), 35 g/m (120/70 mm)
Thickness	: 0.67 mm (100/50 mm), 0.56 mm (120/70 mm)
Width	: 100 mm (thermoplastic elastic sec. 50 mm) 120 mm (thermoplastic elastic sec. 70 mm)
Elongation at Break Longitudinal	: 29% (DIN EN ISO 527-3)
Elongation at Break Lateral	: 125% (DIN EN ISO 527-3)
Maximum Burst Pressure	: 3 bars positive
UV Resistance	: Minimum 500 hours (DIN EN ISO 4892-2)
Service Temperature	: Between -30°C and +90°C

IMPERMO® PU
Waterproofing Tape

Description:
Polyurethane joint tape with **polyester felt** carrier, ready-to-use, with **160%** elongation at break, made of three special layers. The middle part is composed of waterproofing polyurethane membrane, the other two layers are of non-woven polyester. There are 2 cm holes on both corners.

Application Areas:
- Indoor and outdoor,
- Wet areas such as pools, water tanks, bathrooms and toilets,
- Pipe inlet-outlet details of water tanks, pools,
- Drain details,
- Between layers of waterproofing materials applied by brush, on perpendicular corners at balconies and terraces, provides waterproofing and prevents cracks.

Advantages:
- Provides reinforcement support when used with waterproofing materials applied by brush.
- Easy to cut and apply in all kinds of waterproofing applications, economical.
- Not torn apart, resists against impacts and bending.
- Even though it is not water permeable it has water vapor permeability.
- Resistant to several chemicals.

Consumption:
Running meter

Packaging:
Rolls of 50 m

Technical Properties	
Appearance	: White colored tape roll
Material Weight	:185 g/m^2
Thickness	: 0.44 mm
Width	: 120 mm
Elongation at Break Longitudinal	: 24% (DIN EN ISO 527-3)
Elongation at Break Lateral	: 160% (DIN EN ISO 527-3)
Maximum Burst Pressure	: 3 bars positive
UV Resistance	: Minimum 500 hours (DIN EN ISO 4892-2)
Service Temperature	: Between -5°C and +90°C

IMPERMO®
Sodium Bentonite Based Water Swellable Tape

Description:
Sodium bentonite and butyl rubber based **water swellable** tape for joints. Makes concrete joints waterproof by swelling upon contact with water.

Application Areas:
- Indoor and outdoor,
- Swimming pools, water tanks and treatment facilities,
- Joints of foundation and shear wall,
- Manholes,
- Pipe inlet-outlets,
- Construction joints in cable canals,
- Tunnel segments,
- Joints of fresh and old concrete,
- Construction joints.

Advantages:
- Easy to apply, minimizes user errors that may appear on other water swellable tapes.
- Fills cracks and pores that may appear on concrete cold joints by swelling once it gets in contact with water. Makes concrete joints waterproof.
- Can be conveniently used in vertical and horizontal applications.
- Once IMPERMO Sodium Bentonite Based Water Swellable Tape gets in contact with water, it swells in normal speed and does not damage the fresh concrete.
- Does not require welding at the joints.

Consumption:
Running meter

Packaging:
5 mm x 20 mm, in rolls of 10 m
10 mm x 20 mm, in rolls of 10 m

Technical Properties	
Appearance	: Black colored tape roll
Resistance to Water Press.	: ≥ 7 bars (7 days in water)
Hardness (Shore A)	: ~ 45
Elongation at Break	: > 250% (DIN 73521)
Volume Change	: After 7 days in water ≥ 200%** (DIN 73521) After 14 days in water ≥ 300%** (DIN 73521) After 10 dry/wet cycle* ≥ 200%** (DIN 73521) **1 cycle 7 days dry and 7 days in water* ***The amount of $CaCO_3$ and salt in the water may change the expansion rates.*
Application Temperature	: Between -20°C and +50°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

IMPERMO® ACRYL-300

Acrylic Based Water Swellable Tape

Description:
Acrylic polymer and rubber based, high performance, hydrophilic **water stop**, elastic water swellable tape for joints. Makes concrete joints waterproof by swelling up to **300%** upon contact with water.

Application Areas:
- Indoor and outdoor,
- Swimming pools, water tanks and treatment facilities,
- Joints of foundation and shear wall,
- Manholes,
- Pipe inlet-outlets,
- Construction joints in cable canals,
- Tunnel segments,
- Joints of fresh and old concrete,
- Construction joints.

Advantages:
- Easy to apply, minimizes user errors that may appear on other water swellable tapes.
- Fills cracks and pores that may appear on concrete cold joints by swelling once it gets in contact with water. Makes concrete joints waterproof.
- Swells in salt water.
- Returns to its original size when not in contact with water.
- Can be used for long time, resistant to dimensional deformation caused by swelling.
- Can be conveniently used in vertical and horizontal applications.
- Once IMPERMO ACRYL-300 Acrylic Based Water Swellable Tape comes into contact with water, it swells in normal speed and does not damage the fresh concrete.
- Does not require welding at the joints.
- Does not require hardening time.
- Flexible, swells up to 300% with water.

Consumption:
Running meter

Packaging:
5 mm x 20 mm, in rolls of 20 m
10 mm x 20 mm, in rolls of 10 m

Technical Properties	
Appearance	: Red colored tape roll
Resistance to Water Press.	: ≥ 7 bars (7 days in water)
Hardness (Shore A)	: ~ 45
Elongation at Break	: > 150% when dry (DIN 73521)
Volume Change	: After 7 days in water ≥ 250%** (DIN 73521) After 14 days in water ≥ 300%** (DIN 73521) After 10 dry/wet cycle* ≥ 300%** (DIN 73521) **1 cycle 7 days dry and 7 days in water* ***The amount of $CaCO_3$ and salt in the water may change the expansion rates.*
Application Temperature	: Between -20°C and +50°C

IMPERMO® TPE

Thermoplastic Elastomer Based Water Swellable Tape

Description:
Thermoplastic elastomer (TPE) water swellable tape for joints with hydrophilic particles, offering high swelling capacity and long cyclic durability. Makes concrete joints waterproof by swelling up to **400%** upon contact with water.

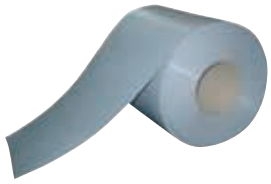
Application Areas:
- Indoor and outdoor,
- Swimming pools, water tanks and treatment facilities,
- Joints of foundation and shear wall,
- Manholes,
- Pipe inlet-outlets,
- Construction joints in cable canals,
- Tunnel segments,
- Joints of fresh and old concrete,
- Construction joints.

Advantages:
- Easy to apply, minimizes user errors that may appear on other water swellable tapes.
- Fills cracks and pores that may appear on concrete cold joints by swelling once it gets in contact with water. Makes concrete joints waterproof.
- Can be conveniently used in vertical and horizontal applications.
- Once IMPERMO TPE Thermoplastic Elastomer Based Water Swellable Tape comes into contact with water, it swells in normal speed and does not damage the fresh concrete. Does not break apart, elastic.
- Does not require welding at the joints.
- Highly resistant to high salt concentrations and various chemicals.
- Offers superior cyclic swelling capacity.

Consumption:
Running meter

Packaging:
5 mm x 20 mm, in rolls of 20 m
10 mm x 20 mm, in rolls of 10 m

Technical Properties	
Appearance	: Red colored tape roll
Density	: 1.25 g/cm³
Hardness (Shore A)	: ~ 40
Elongation at Break	: ≥ 500% (DIN 73521)
Volume Change	: ≥ 400% (Swelling ratio in water containing 3% sea salt is 100%)
Tensile Strength	: 1.1 - 2.1 MPa
Application Temperature	: Between -30°C and +70°C



IMPERMO® COMBI

Waterproofing Tape for Dilatation

Description:
Ready-to-use **thermoplastic** elastomer based waterproofing tape for dilatation joints.

Application Areas:
- Indoor and outdoor,
- Any engineering structure, such as dams, highways, tunnels, subways,
- Water tanks, pools, parking garages and shopping malls,
- Vertical and horizontal applications for expansion (dilatation) joints,
- Raft foundation reinforced concrete wall intersections completed internally and externally.

Advantages:
- Ensures waterproofing in expansion joints.
- Resistant to various chemicals.
- Solves the details in horizontal and vertical applications when bonded with **REPOX 310 Epoxy Repair, Adhesive and Assembly Mortar**.
- Dilatation profiles are placed on in order for an aesthetic finish after waterproofing with IMPERMO COMBI in expansion joints.
- Economical.
- Easy to apply even in expansion joints where polyurethane sealant is not used.

Consumption:
Running meter

Packaging:
In rolls of 20 m. Width is 200 mm, 250 mm or 300 mm and thickness is 1 mm.

Technical Properties	
Appearance	: Grey colored tape roll
Material Weight	: 950 g/m²
Hardness (Shore A)	: 94
Extension Break Longitudinal	: 392% (DIN EN ISO 527-3)
Extension Break Lateral	: 992% (DIN EN ISO 527-3)
Maximum Burst Pressure	: > 4 bars
Breaking Load Longitudinal	: 12.0 N/mm² (DIN EN ISO 527-3)
Breaking Load Lateral	: 12.1 N/mm² (DIN EN ISO 527-3)
Fire Class	: B2 (DIN EN 4102)
Service Temperature	: Between -30°C and +90°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

IMPERMO®

Waterproofing Mesh

Description:
Waterproofing mesh with high **alkaline resistance**, woven with glass fiber, used to increase the resistance against capillary crack formation and support waterproofing systems where resistance to higher water pressure is required.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- All brush applied waterproofing applications where alkaline resistance is required,
- Places where high water pressure is required, such as water tanks, pools,
- Balconies and terraces, to provide resistance against cracks between the layers of waterproofing materials applied by brush,
- Places exposed to movements, vibrations and slight settlings such as foundation, retaining walls and basements.

Advantages:
- Enhances the strength and carrying abilities of brush applied waterproofing materials against water pressure and impacts when applied in between them.
- Resistant to alkaline, does not deteriorate or tear in time.
- Resistant to seasonal temperature changes. Withstands the stress throughout the year and prevents capillary crack formation.
- Resistant to aging, does not rot.
- Easy to apply as it does not form wrinkless or undulations.
- Does not become moldy, is not affected from moisture.

Consumption:
Running meter

Packaging:
Rolls of 100 m

Technical Properties	
Appearance	: White colored mesh
Material Density	: 60 ± 2 g/m^2
Coating Type	: Alkaline resistant
Mesh (Square) Size	: 2.8 x 2.8 mm
Standard Width	: 100 ± 1 cm
Roll Length	: 100 ± 2% m
Service Temperature	: Between -20°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

Waterproofing Systems Product Application Table

Application Areas	Products	POLYMERA MS	POLYMERA MS FLUID	AQUAMER HB	AQUAMER HB INVISIBLE	AQUAFIX	AQUAFIX S	AQUAFIX C	AQUAFIX PRO	AQUAFIX 2K	AQUAFIX EXPAN	AQUAFIX LIQUID C	AQUAFIX LIQUID	AQUASTOP	AQUACEMENT 2K 251
FOUNDATIONS and SHEAR WALLS	Foundation concrete waterproofing					●	●	●	●	●	●	●	●	●	
	Protection from ground water					●	●	●	●	●	○				○
	Insulation of elevator pits					●	●	●		●	●	●	●		●
	Positive waterproofing in reinforced concrete shear walls	●	●			●	●	●		●	●			●	●
	Shear wall concrete where negative waterproofing is required					●	●	●		●	●	●	●	●	
	Waterproofing of shear wall poured with one sided mold					●	●	●		●	●	●	●		
	Waterproofing in cold joints					●	●	●		●	●				
	External waterproofing of retaining walls					○	○	○		○					●
	Waterproofing of concrete exposed to sulphate and corrosive salts						●				●				
	External waterproofing of foundation sub-basement	●	●	○		○	○	○		○	●				●
	Stopping the pressurized water													●	
	Waterproofing of basements against water and moisture					●	●	●		●	○			●	○
ROOFS and BALCONIES	In intersections of chimneys, ventilations and skylights	●	●	○	●										
	Transparent waterproofing on existing ceramics, in areas such as balconies, terraces				●										
	Waterproofing of terrace gardens and green roofs	○	○												
	Waterproofing of terrace roofs and parapets (to be covered)	○	○												●
	Waterproofing of terrace roofs and parapets (to be left uncovered, UV resistant)	●	●	●	●										
	Waterproofing of reinforced concrete inclined roofs	●	●	●	●										●
	Waterproofing where crack bridging is required	●	●		○										●
	Use with waterproofing mesh		●	●											●
	Waterproofing of dilatation joints														
	Waterproofing of concealed gutters	●	●	○	○										○
WET AREAS	Waterproofing of wet areas such as bathrooms, kitchens and toilets at construction stage	●	●	○						○					●
	Waterproofing in wet areas with floor heating	●	●	○											●
	Transparent waterproofing on existing ceramics in wet areas				●										
WATER TANKS and SWIMMING POOLS	Structural waterproofing of pool and foundation concrete					●	●	●	○	●		●	●		
	Positive side waterproofing of pools					○	○	○		○	●				●
	Negative side waterproofing of pools					●	●	●		●					
	Positive side waterproofing of reinforced concrete water tanks	●	●	○	○	○	○	○		○	●				●
	Negative side waterproofing of reinforced concrete water tanks					●	●	●		●					○
	Compatibility to potable water	○	○	●	●	●	●	●		●	●				●
ARCHITECTURAL SOLUTIONS	Transparent waterproofing of facades covered with glass mosaic				●										
	Transparent waterproofing of historical buildings				●										
	Transparent waterproofing of surfaces such as stone, brick, terracotta				●										
	Waterproofing of concrete, stone, marble, tile, wood, glass, metal, brick, gas concrete, galvanised, aluminium, sheet metal surfaces	●	●	●	●										

	AQUACEMENT 2K 250	AQUACEMENT 2K 207	AQUACEMENT 2K 205	AQUACEMENT UV500	AKRILAN 600	AKRILAN 600E	AQUALON	IZO-CERA	BITUMFIX W	BITUMFIX ER 2K	BITUMFIX PU 1K	BITUMFIX PU 2K	POLAN 500	POLAN 620	POLAN 600 INVISIBLE	POLAN 700	POLAN 710	POLAN 750	IMPERMO PVC Waterproofing Tape	IMPERMO PU Waterproofing Tape	IMPERMO Sodium Bentonite Based Water Swellable Tape	IMPERMO ACRYL-300 Acrylic Based Water Swellable Tape	IMPERMO TPE Thermoplastic Elastomer Based Water Swellable Tape	IMPERMO COMBI Waterproofing Tape for Dilatation	IMPERMO Waterproofing Mesh
																					●	●	●		
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					●	●					●	●	○	○	○				●	●					

● Highly Recommended ○ Suitable

SEALANTS

POLYMERA® MS 925

MS Polymer Based Sealant (LM)

Description:
MS Polymer based, single component, **low modulus (LM)**, elastic, solvent and isocyanate free hybrid construction sealant.

Application Areas:
- Indoor and outdoor,
- All indoor and outdoor dilatation joints of high buildings,
- All kinds of cladding facade joints,
- Rain gutters and construction intersections for sealing,
- Bathrooms and kitchens, in joints of shower enclosures, baths, washbasins and sinks etc.
- Joint combinations of glass, ceramic, tiles and glazed surfaces,
- Joint combinations of metal, aluminum, wood and glass,
- Joints of stainless, galvanized or black steels,
- Filling joints of natural materials such as marble, natural stone and granite,
- Intersection details of prefabricated elements,
- Sealing of window, door and roofs.

Advantages:
- **Single component**, easy to apply.
- Highly elastic, can strectch more than 5 times of its length and turns to its original form without being distorted.
- **Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Thanks to **its low modulus (LM)** and **high adhesion** property, it tolerates small movements and protects its sealing properties in joints.
- Does not bleed oil into construction materials such as marble, natural stone, granite.
- Does not lose volume or mass when cured.
- Does not cause bubbles following applications on damp surfaces.
- Durable as it does not contain **solvent** and **isocyanate**. Does not shrink, sag or peel off.
- Can be overpainted with waterborne and other types of paints.
- Prevents mold and fungus formation.
- Cures neutrally, the odor does not disturb.
- Adheres perfectly on many surfaces without primer.
- Protects its elasticity even at low and high temperatures (-40°C and +80°C) once cured.

Consumption:

Width of the joint mm	Depth of the joint mm	Consumption ml (for 1 m)	Consumption g (for 1 m)
6	6	36	50.40
10	10	100	140
20	12	240	336

Packaging:
290 ml cartridges
600 ml aluminum sausages

Technical Properties	
Appearance	: High viscosity MS polymer sealant
Color	: Pls. see the color chart on page 39
Density	: 1.40 ± 0.05 g/cm^3
Joint Movement	: ± 25% (TS EN ISO 11600)
Hardness (Shore A)	: 28 ± 3 (DIN 53505)
Surface Dry Time	: 200 ± 30 minutes
Curing Rate	: 2.5 - 3 mm / 24 hours
Elongation at Break	: > 500% (7 days) (DIN 53504)
100% Modulus	: < 0.40 N/mm^2
Application Temperature	: Between +5°C and +35°C
Service Temperature	: Between -40°C and +80°C

POLYMERA® MS 940

MS Polymer Based Sealant (HM)

Description:
MS Polymer based, single component, **high modulus (HM)**, elastic, solvent and isocyanate free hybrid construction sealant and adhesive. It is developed to provide **adhesion** and **sealing** in roof, facade, sandwich panel, container, wood, metal, composite and prefabricated assembly works.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical joint combinations and dilatation joints,
- Roof and terrace dilatations and in joints of parapet corners,
- To absorb vibrations in intersection details and joints of cabin and body of containers, truck booths etc.
- Intersection details of prefabricated elements,
- Assembly and insulation of sandwich panels in roofs and facades,
- Bathrooms and kitchens, in joints of shower enclosures, baths, washbasins and sinks etc.
- Joint combinations of glass, ceramic, tiles and glazed surfaces,
- Joint combinations of metal, aluminum, wood and glass,
- Joints of stainless, galvanized or black steels,
- Filling joints of natural materials such as marble, natural stone and granite,
- Assembly and sealing of wood, metal, PVC, concrete, fiber cement board and various composite cabins, construction and container intersections.

Advantages:
- **Single component**, easy to apply.
- Highly elastic, can strectch more than 4 times of its length and turns to its original form without being distorted.
- **Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Thanks to **its high modulus (HM)** and **high adhesion** property, it tolerates rigorous movements and protects its adhesion and sealing properties in joints.
- Does not bleed oil into construction materials such as marble, natural stone, granite.
- Does not lose volume or mass when cured.
- Does not cause bubbles following applications on damp surfaces.
- Durable as it does not contain **solvent** and **isocyanate**. Does not shrink, sag or peel off.
- Can be overpainted with waterborne and other types of paints.
- Prevents mold and fungus formation.
- Cures neutrally, the odor does not disturb.
- Adheres perfectly on many surfaces without primer.
- Protects its elasticity even at low and high temperatures (-40°C and +80°C) once cured.

Consumption:

Width of the joint mm	Depth of the joint mm	Consumption ml (for 1 m)	Consumption g (for 1 m)
6	6	36	49.32
10	10	100	137
20	12	240	329

Packaging:
290 ml cartridges
600 ml aluminum sausages

Technical Properties	
Appearance	: High viscosity MS polymer sealant
Color	: Pls. see the color chart on page 39
Density	: 1.37 ± 0.05 g/cm^3
Hardness (Shore A)	: 40 ± 5 (DIN 53505)
Surface Dry Time	: 70 ± 30 minutes
Curing Rate	: 3 mm / 24 hours
Elongation at Break	: > 400% (7 days) (DIN 53504)
100% Modulus	: > 0.50 N/mm^2
Application Temperature	: Between +5°C and +35°C
Service Temperature	: Between -40°C and +80°C

PU 970

Polyurethane Low Modulus Sealant (LM)

Description:
Polyurethane based, single component, **low modulus (LM)** sealant which is an ideal product for **static** and **dynamic** expansion joints of construction elements.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical dilatation joints,
- Roof and terrace dilatations and joints of parapet corners,
- Intersection details of prefabricated elements,
- Between precast wall panels,
- As a sealant in joints of PVC, wood, metal, aluminum and plastic joinery.

Advantages:
- Easy to apply and its surface can be smoothed.
- Has high stretching properties and turns its original form.
- Has perfect and permanent elasticity and adhesion strength.
- Tolerates even small movements of the building thanks to its low modulus.
- Hardens with the moisture in the air.
- Can be overpainted.
- Becomes waterproof when cured.
- Resistant to aging.
- Thixotropic, does not sag.

Consumption:
Varies depending on the joint width.

Packaging:
280 ml aluminum cartridges
600 ml aluminum sausages

Technical Properties	
Appearance	: High viscosity polyurethane sealant
Color	: Pls. see the color chart on page 39
Density	: 1.15 ± 0.05 g/cm^3 (DIN 53479)
Surface Dry Time	: 90 ± 30 minutes
Application Temperature	: Between +5°C and +35°C
Curing Rate	: 2 mm / 24 hours
Elongation at Break	: > 1000% (14 days) (DIN 53504)
Hardness (Shore A)	: 25 ± 5 (DIN 53505)
Tensile Strength	: > 1.5 N/mm^2 (DIN 53504)
100% Modulus	: > 0.40 N/mm^2 (DIN 53504)
Volume Change	: ~ 5%
Sagging	: < 2 mm (DIN EN ISO 7390)
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

PU 971

Polyurethane High Modulus Sealant (HM)

Description:
Polyurethane based, single component, **high modulus (HM)** sealant and adhesive which is developed to provide **adhesion** and **sealing** in roofs, facades, sandwich panels, containers, wood, metal, composite and prefabricated structural elements.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical joint combinations and dilatation joints,
- Roof and terrace dilatations and in joints of parapet corners,
- To absorb vibrations in intersection details and joints of containers, truck cabins etc.
- Intersection details of prefabricated elements,
- Assembly and insulation of sandwich panels in roof and facades,
- Assembly and sealing of wood, metal, PVC, concrete, fiber cement board and various composite cabins, construction and container intersections.

Advantages:
- Easy to apply and its surface can be smoothened.
- Has high stretching properties and turns to its original form.
- Has perfect and permanent elasticity and adhesion strength.
- Has high shock absorption and high resistance to load and friction.
- Hardens with the moisture in the air.
- Can be overpainted.
- Becomes waterproof when cured.
- Resistant to aging.
- Thixotropic, does not sag.
- Resistant to water, salted water, weak acids and bases and waterborne cleaners.

Consumption:
Varies depending on the joint width.

Packaging:
280 ml aluminum cartridges
600 ml aluminum sausages

Technical Properties	
Appearance	: High viscosity polyurethane sealant
Color	: Pls. see the color chart on page 39
Density	: 1.15 ± 0.05 g/cm³ (DIN 53479)
Surface Dry Time	: 70 ± 30 minutes
Application Temperature	: Between +5°C and +35°C
Curing Rate	: 2 mm / 24 hours
Elongation at Break	: > 800% (14 days) (DIN 53504)
Hardness (Shore A)	: 40 ± 5 (DIN 53505)
Tensile Strength	: > 2 N/mm² (DIN 53504)
100% Modulus	: > 0.50 N/mm² (DIN 53504)
Volume Change	: ~ 5%
Sagging	: < 2 mm (DIN EN ISO 7390)
Service Temperature	: Between -30°C and +80°C

POLAN® 980 2K

Coal Tar Modified Polyurethane Based Sealant and Waterproofing Material

Description:
Coal tar modified polyurethane based, double component, elastomeric, **cold applied**, self-levelling sealant and waterproofing material which has high mechanical and chemical resistance. It is **resistant to jet fuels** and **oils**.

Application Areas:
- Dynamic horizontal dilatation joints for sealing and filling,
- Filling the ground joints in places exposed to chemical and industrial wastes, such as airports, garages and gas stations,
- Places where infrastructural work is needed, such as tunnels, bridges, canals, ports and highways,
- Warehouse, garage, hangar and loading areas,
- Bricks, concrete or grating covers of the pavements,
- As a joint sealant in balconies and terraces.

Advantages:
- Highly resistant to oil, petroleum, jet fuel and various chemicals, self-levelling.
- Cold applied, easy and fast to apply.
- Resistant to UV and abrasion.
- Not affected by dilatation movements and different weather conditions. Resistant to aging.
- Has high adhesion properties to the surface where it is applied (concrete, metal and glass etc.).
- Highly elastic, does not lose its elasticity between -30°C and +80°C.
- Ideal to use where hot applied joint fillers cannot be used.

Consumption:
Varies depending on the joint depth and width.
Theoretical consumption:
Joint width (mm) x joint depth (mm) x material density = consumption/running meter.

Packaging:
Component A: 4.3 kg tin cans
Component B: 0.7 kg tin cans

Technical Properties	
Appearance	: Black colored flowable coal tar modified polyurethane sealant
Mixture Density	: 1.25 ± 0.05 g/cm³
Application Temperature	: Between +5°C and +30°C
Solid Content	: 96%
Elastic Recovery	: 80%
Tensile Strength	: 0.16 MPa (+23°C); 0.22 MPa (-20°C)
Hardness (Shore A)	: 25 ± 5
Change in Mass and Volume	: Maximum 1% with jet fuel (After immersion in test fuels)
Shock Temperature Resistance	: +120°C
Pot Life of Mixture	: 30 - 45 minutes (20°C)
Surface Dry Time	: Tack-Free: 6 hours Complete Drying: 24 hours Test: 7 days
Service Temperature	: Between -30°C and +80°C

AS 910

Siliconized Acrylic Sealant

Description:
Acrylic dispersion based, **silicone** added, single component, multi-purpose sealant resistant to weather conditions. It is an economical and ideal sealant for **static** joints of the buildings.

Application Areas:
- Indoor and outdoor,
- Installation of window, wooden or PVC joinery,
- Sealing of window frames,
- Baseboards.

Advantages:
- **Single component**, easy to apply,
- Can be used in all porous surfaces (brick, concrete, wood).
- Does not contain solvent and isocyanate, odorless.
- Can be painted when cured.
- Resistant to weather conditions.
- Waterborne, easy to clean.

Consumption:
Varies depending on the application surface.
The recommended width and depth ratio of the sealant is 2:1.

Packaging:
Gross 500 g plastic cartridges

Technical Properties	
Appearance	: High viscosity siliconized acrylic sealant
Color	: Pls. see the color chart on page 39
Density	: 1.60 ± 0.05 g/cm³ (DIN 53479)
Application Temperature	: Between +5°C and +30°C
Surface Dry Time	: 80 ± 30 minutes
Elongation at Break	: ≥ 150% (28 days)
Curing Rate	: 2 mm / 24 hours
Service Temperature	: Between -10°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

SS 930E
Multi-Purpose Silicone Sealant

Description:
Silicone based, **multi-purpose**, single component (acetoxy) sealant which is cured with the moisture in the air and can be used indoor and outdoor.

Application Areas:
- Indoor and outdoor,
- Bathrooms and kitchens, in joints of shower enclosures, baths, washbasins and sinks,
- Glass assembly works,
- Sealing of window frames,
- For sealing and filling purposes in door and window gaps.

Advantages:
- **Single component**, easy to apply.
- **Resistant to UV**, does not crack or turn to yellow.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- Highly elastic and turns to its original form without being distorted.
- Protects its elasticity even at low and high temperatures (-30°C and +120°C) when cured.
- Resistant to detergents, cleaning materials and diluted chemical solutions.

Consumption:
Varies depending on the application surface.

Packaging:
Gross 280 g plastic cartridges

Technical Properties	
Appearance	: High viscosity silicone sealant
Color	: Pls. see the color chart on page 39
Density	: 0.97 ± 0.02 g/cm^3
Application Temperature	: Between +5°C and +35°C
Surface Dry Time	: 20 ± 5 minutes
Curing Rate	: 3 mm / 24 hours
Hardness (Shore A)	: 20 ± 5
Tensile Strength	: ≥ 1 MPa
Elongation at Break	: > 500% (14 days)
Service Temperature	: Between -30°C and +120°C

SS 930
Multi-Purpose Silicone Sealant

Description:
Silicone based, **multi-purpose**, single component (acetoxy) sealant which is cured with the moisture in the air and can be used indoor and outdoor.

Application Areas:
- Indoor and outdoor,
- Bathrooms and kitchens, in joints of shower enclosures, baths, washbasins and sinks,
- Glass assembly works,
- Sealing of window frames,
- For sealing and filling purposes in door and window gaps.

Advantages:
- **Single component**, easy to apply.
- **Resistant to UV**, does not crack or turn to yellow.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- Highly elastic and turns to its original form without being distorted.
- Protects its elasticity even at low and high temperatures (-30°C and +120°C) when cured.
- Resistant to detergents, cleaning materials and diluted chemical solutions.

Consumption:
Varies depending on the application surface.

Packaging:
Net 280 ml (Gross 320 g) plastic cartridges

Technical Properties	
Appearance	: High viscosity silicone sealant
Color	: Pls. see the color chart on page 39
Density	: 0.97 ± 0.02 g/cm^3
Application Temperature	: Between +5°C and +35°C
Surface Dry Time	: 20 ± 5 minutes
Curing Rate	: 3 mm / 24 hours
Hardness (Shore A)	: 20 ± 5
Tensile Strength	: ≥ 1 MPa
Elongation at Break	: > 500% (14 days)
Service Temperature	: Between -30°C and +120°C

SS 930X
Multi-Purpose Silicone Sealant

Description:
Silicone based, **multi-purpose**, single component (acetoxy) sealant which is cured with the moisture in the air and can be used indoor and outdoor.

Application Areas:
- Indoor and outdoor,
- Bathrooms and kitchens, in joints of shower enclosures, baths, washbasins and sinks,
- Glass assembly works,
- Sealing of window frames,
- For sealing and filling purposes in door and window gaps.

Advantages:
- **Single component**, easy to apply.
- **Resistant to UV**, does not crack or turn to yellow.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- Highly elastic and turns to its original form without being distorted.
- Protects its elasticity even at low and high temperatures (-30°C and +120°C) when cured.
- Resistant to detergents, cleaning materials and diluted chemical solutions.

Consumption:
Varies depending on the application surface.

Packaging:
Net 300 ml (Gross 345 g) plastic cartridges

Technical Properties	
Appearance	: High viscosity silicone sealant
Color	: Pls. see the color chart on page 39
Density	: 0.97 ± 0.02 g/cm^3
Application Temperature	: Between +5°C and +35°C
Surface Dry Time	: 20 ± 5 minutes
Curing Rate	: 3 mm / 24 hours
Hardness (Shore A)	: 20 ± 5
Tensile Strength	: ≥ 1 MPa
Elongation at Break	: > 500% (14 days)
Service Temperature	: Between -30°C and +120°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

SS 931
Universal Silicone Sealant (100% Silicone)

Description:
High quality, **multi-purpose**, **100% silicone**, solvent-free, single component (acetoxy) sealant which is cured with the moisture in the air and can be used indoor and outdoor.

Application Areas:
- Indoor and outdoor,
- Bathrooms and kitchens, in joints of shower enclosures, baths, washbasins and sinks,
- Glass assembly works,
- Sealing of window frames,
- Insulation of cold storage depots,
- For sealing and filling purposes in door and window gaps.

Advantages:
- **Single component**, easy to apply.
- **100% silicone**, solvent-free and durable.
- **Resistant to UV**, does not crack or turn to yellow, shrink, sag or peel off.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- Highly elastic, can strectch more than 5 times of its length and turns to its original form without being distorted.
- Prevents mold and fungus formation.
- Protects its elasticity even at low and high temperatures (-40°C and +150°C) when cured.
- Resistant to detergents, cleaning materials and diluted chemical solutions.

Consumption:
Varies depending on the application surface.

Packaging:
Net 300 ml plastic cartridges

Technical Properties	
Appearance	: High viscosity silicone sealant
Color	: Pls. see the color chart on page 39
Density	: 1.02 ± 0.02 g/cm^3
Application Temperature	: Between +5°C and +35°C
Surface Dry Time	: 25 ± 5 minutes
Curing Rate	: 3 mm / 24 hours
Hardness (Shore A)	: 25 ± 5
Tensile Strength	: ≥ 1.2 MPa
Elongation at Break	: > 500% (14 days)
Service Temperature	: Between -40°C and +150°C

SS 932
Sanitary Silicone Sealant

Description:
High quality, **100% silicone**, solvent-free, single component (acetoxy) sealant which is cured with the moisture in the air, can be used in wet areas such as **bathrooms** and **kitchens** for sealing and filling purposes.

Application Areas:
- Indoor and outdoor,
- Wet areas such as bathrooms and kitchens,
- For sealing in installation of products such as toilet, baths, washbasins,
- Installation and rounds of shower enclosures for sealing purposes,
- Joint of tiles which is open to water contact,
- Sealing of kitchen appliances, hygienic devices and equipments,
- For sealing of cold storage depots and refrigerated vehicles.

Advantages:
- **Single component**, easy to apply.
- **100% silicone**, solvent-free and durable. Does not shrink, sag or peel off.
- Resistant to continuous moisture exposure.
- **Resistant to UV**, does not crack or turn to yellow.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- Highly elastic, can strectch more than 5 times of its length and turns to its original form without being distorted.
- Prevents mold and fungus formation.
- Cures fast, protects its elasticity even at low and high temperatures (-40°C and +150°C) when cured.
- Resistant to detergents, cleaning materials and diluted chemical solutions.

Consumption:
Varies depending on the application surface.

Packaging:
Net 280 ml (Gross 340 g) plastic cartridges

Technical Properties	
Appearance	: High viscosity silicone sealant
Color	: Pls. see the color chart on page 39
Density	: 1.02 ± 0.02 g/cm^3
Application Temperature	: Between +5°C and +35°C
Surface Dry Time	: 25 ± 5 minutes
Curing Rate	: 3 mm / 24 hours
Hardness (Shore A)	: 25 ± 5
Tensile Strength	: ≥ 1.2 MPa
Elongation at Break	: > 500% (14 days)
Service Temperature	: Between -40°C and +150°C

SS 932X
Shower Cabin Silicone Sealant

Description:
High quality, **100% silicone**, solvent-free, single component (acetoxy) sealant which is cured with the moisture in the air, can be used in wet areas such as **shower cabins**, **bathrooms** and **kitchens** for sealing and filling purposes.

Application Areas:
- Indoor and outdoor,
- Wet areas such as bathrooms and kitchens,
- For sealing in installation of products such as toilet, baths, shower cabins, washbasins,
- Installation and rounds of shower enclosures for sealing purposes,
- Joint of tiles which is open to water contact,
- Sealing of kitchen appliances, hygienic devices and equipments,
- For sealing of cold storage depots and refrigerated vehicles.

Advantages:
- **Single component**, easy to apply.
- **100% silicone**, solvent-free and durable. Does not shrink, sag or peel off.
- Resistant to continuous moisture exposure.
- **Resistant to UV**, does not crack or turn to yellow.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- Highly elastic, can strectch more than 5 times of its length and turns to its original form without being distorted.
- Prevents mold and fungus formation.
- Cures fast, protects its elasticity even at low and high temperatures (-40°C and +150°C) when cured.
- Resistant to detergents, cleaning materials and diluted chemical solutions.

Consumption:
Varies depending on the application surface.

Packaging:
Net 300 ml (Gross 360 g) plastic cartridges

Technical Properties	
Appearance	: High viscosity silicone sealant
Color	: Pls. see the color chart on page 39
Density	: 1.02 ± 0.02 g/cm^3
Application Temperature	: Between +5°C and +35°C
Surface Dry Time	: 25 ± 5 minutes
Curing Rate	: 3 mm / 24 hours
Hardness (Shore A)	: 25 ± 5
Tensile Strength	: ≥ 1.2 MPa
Elongation at Break	: > 500% (14 days)
Service Temperature	: Between -40°C and +150°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

SS 933 RTV

Heat Resistant Silicone Sealant

Description:
High quality, solvent-free, single component (acetoxy), **red colored silicone** sealant which is cured with the moisture in the air, developed for the applications of engines and mechanical parts exposed to **high temperatures**.

Application Areas:
- Places exposed to continuous high temperatures,
- Automotive motor components, differential cover, gear box cover, motor hood and carburetor cover sealing,
- Diluted acidic and basic environments,
- Steam installations, as sealant in places exposed to hot water and steam,
- Sealing of chemical reactors,
- Hot-air pipes,
- Industrial mechanic parts,
- All sealing applications exposed to mechanical and chemical heating.

Advantages:
- **Single component**, easy to apply.
- Resistant to maximum +250°C.
- Does not contain **solvent**, durable. Does not shrink, sag or peel off.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- Not affected from weather conditions after one hour when cured. Resistant to abrasion.
- Highly elastic and turns to its original form without being distorted.
- Red colored, easily noticed.
- Resistant to detergents, cleaning materials and diluted chemical solutions.
- Odorless when cured.
- Not harmful or toxic.

Consumption:
Varies depending on the application surface.

Packaging:
Net 300 ml plastic cartridges

Technical Properties	
Appearance	: Red colored high viscosity silicone sealant
Density	: 1.05 ± 0.05 g/cm³
Application Temperature	: Between +5°C and +35°C
Surface Dry Time	: 20 ± 5 minutes
Curing Rate	: 3 mm / 24 hours
Hardness (Shore A)	: 25 ± 5
Tensile Strength	: ≥ 1 MPa
Elongation at Break	: > 500% (14 days)
Resistance to Heat	: Maximum +250°C
Service Temperature	: Between -40°C and +250°C

SS 934 CONSTRUCTION

Neutral Construction Silicone Sealant

Description:
High quality, single component, **100% silicone**, solvent-free sealant with **neutral oxime structure**, cured with the moisture in the air, can be used in all kinds of indoor and outdoor areas of the **building**.

Application Areas:
- Indoor and outdoor,
- All kinds of aluminum cladding facade joints,
- As a sealing material in construction joints,
- Glass assembly works,
- Joint combinations of glass, aluminum and glazed surfaces,
- Sealing of window frames,
- Insulation of cold storage depots,
- For sealing and filling purposes in door and window gaps,
- All kinds of joint applications due to its neutral characteristics.

Advantages:
- **Single component**, easy to apply.
- Does not contain **solvent**, durable. Does not shrink, sag or peel off.
- **Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- Highly elastic, can strectch more than 5 times of its length and turns to its original form without being distorted.
- Not affected from weather conditions after one hour when cured. Resistant to abrasion.
- Odorless.
- Protects its elasticity even at low and high temperatures (-40°C and +150°C) when cured.
- Resistant to detergents, cleaning materials and diluted chemical solutions.
- Not harmful or toxic.

Consumption:

Width of the joint mm	Depth of the joint mm	Consumption ml (for 1 m)	Glossy Consumption g (for 1 m)	Matte Consumption g (for 1 m)
6	6	36	36.72	48.60
10	10	100	102	135
20	12	240	244.80	324

Packaging:
Net 300 ml plastic cartridges
600 ml aluminum sausages

Technical Properties		
Appearance	: High viscosity silicone sealant	
Color	: Pls. see the color chart on page 39	
Application Temperature	: Between +5°C and +35°C	
Service Temperature	: Between -40°C and +150°C	
Movement Capability	: 25% (TS EN ISO 11600)	
	Glossy	**Matte**
Density	: 1.02 ± 0.02 g/cm³	1.35 ± 0.05 g/cm³
Surface Dry Time	: 10 ± 5 minutes	10 ± 5 minutes
Curing Rate	: 3 mm / 24 hours	3 mm / 24 hours
Hardness (Shore A)	: 22 ± 5	36 ± 5
Tensile Strength	: ≥ 1 MPa	≥ 1 MPa
Elongation at Break	: > 500% (14 days)	> 400% (14 days)

SS 994 FACADE

Weatherseal Silicone Sealant

Description:
Single component, weather resistant, high strength, **neutral alkoxy structure (weatherseal)**, **100% silicone** sealant developed for **facade** joints.

Application Areas:
- Indoor and outdoor,
- In all cladding facade joints, including structural joints,
- As a sealing material in construction joints,
- In laminated glass applications,
- In glass installation and joinery insulation,
- On many surfaces such as coated and anodized aluminum, wood, concrete, brick, ceramic, porcelain.

Advantages:
- **Single component**, easy to apply.
- **Does not contain solvent**, durable.
- Is not affected by weather conditions and performs excellent and long-term durability when cured. It provides excellent resistance to extreme conditions such as extreme temperatures, UV, rain and snow, without significant change in elasticity.
- Its high tensile strength, high tear strength and high capacity to absorb deformations (elongation) make this product an outstanding product for weatherseal facade applications.
- Can meet both the elongation and compression movements by 50% (ASTM C719) and has an excellent recovery after this cycle.
- Has very **low VOC** value. Is a low odor neutral curing product.
- Protects its elasticity even at low and high temperatures (-50°C and +100°C) when cured.

Consumption:

Width of the joint mm	Depth of the joint mm	Consumption ml (for 1 m)	Consumption g (for 1 m)
6	6	36	51.48
10	10	100	143
20	10	200	286

Packaging:
300 ml plastic cartridges
600 ml aluminum sausages

Technical Properties	
Appearance	: Silicone based sealant
Color	: Black
Density	: 1.43 ± 0.05 g/cm³
Application Temp.	: Between +5°C and +35°C
Surface Dry Time	: 25 ± 5 minutes
Movement Capability	: 50% (ASTM C719) and 25% (TS EN ISO 11600)
Curing Rate	: 2 - 3 mm / 24 hours
Hardness (Shore A)	: 30 ± 5
Tensile Strength	: ≥ 1 MPa
Elongation at Break	: > 400% (14 days)
Service Temperature	: Between -50°C and +100°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

SS 935
Marble and Natural Stone Silicone Sealant

Description:
High quality, **100% silicone**, single component, neutral, solvent-free sealant which is cured with the moisture in the air, can be used in joints of construction materials such as **natural stone**, **marble** and **granite**.

Application Areas:
- Indoor and outdoor,
- Sensitive surfaces such as natural stone, marble and granite,
- Joints of facade coatings such as natural stone, marble and granite,
- Joint combinations of glass, aluminum and glazed surfaces,
- Sealing of window frames.

Advantages:
- **Single component**, easy to apply.
- Granite, marble and other natural materials can be stained in contact with standard silicones. SS 935 is developed for these sensitive surfaces, does not stain.
- **Does not contain solvent**, durable. Does not shrink, sag or peel off.
- **Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- Highly elastic, can strectch more than 5 times of its length and turns to its original form without being distorted.
- Resistant to abrasion.
- Not affected from weather conditions after one hour when cured.
- Prevents mold and fungus formation.
- Odorless.
- Protects its elasticity even at low and high temperatures (-40°C and +150°C) once cured.
- Resistant to detergents, cleaning materials and diluted chemical solutions.
- Not harmful or toxic.

Consumption:

Width of the joint mm	Depth of the joint mm	Consumption ml (for 1 m)	Consumption g (for 1 m)
6	6	36	36.36
10	10	100	101
20	12	240	242.40

Packaging:
Net 300 ml plastic cartridges

Technical Properties	
Appearance	: High viscosity silicone sealant
Color	: Pls. see the color chart on page 39
Density	: 1.01 ± 0.02 g/cm³
Application Temperature	: Between +5°C and +35°C
Surface Dry Time	: 10 ± 5 minutes
Curing Rate	: 3 mm / 24 hours
Hardness (Shore A)	: 25 ± 5
Tensile Strength	: ≥ 1 MPa
Elongation at Break	: > 300% (14 days)
Service Temperature	: Between -40°C and +150°C

SS 936
Neutral Silicone Sealant

Description:
High quality, single component, **100% silicone**, solvent-free sealant with **neutral oxime structure**, cured with the moisture in the air, can be used in all kinds of indoor and outdoor areas.

Application Areas:
- Indoor and outdoor,
- Automotive and transportation industries, in sheet metal and panel installations,
- Production of durable white goods for insulation purposes,
- As sealing material in home appliances,
- Bathrooms and kitchens, in joints of shower enclosures, baths, washbasins and sinks,
- Sealing of electronic and sensitive metal surfaces,
- Joint combinations of glass, aluminum and glazed surfaces.

Advantages:
- **Single component**, easy to apply.
- Does not contain **solvent**, durable. Does not shrink, sag or peel off.
- **Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- Not affected from weather conditions after one hour when cured.
- Odorless.
- Protects its elasticity even at low and high temperatures (-40°C and +150°C) once cured.
- Resistant to detergents, cleaning materials and diluted chemical solutions.
- Not harmful or toxic.

Consumption:

Width of the joint mm	Depth of the joint mm	Consumption ml (for 1 m)	Glossy Consumption g (for 1 m)	Matte Consumption g (for 1 m)
6	6	36	36.72	48.60
10	10	100	102	135
20	12	240	244.80	324

Packaging:
Net 300 ml plastic cartridges

Technical Properties		
Appearance	: High viscosity silicone sealant	
Color	: Pls. see the color chart on page 39	
Application Temperature	: Between +5°C and +35°C	
Service Temperature	: Between -40°C and +150°C	
Movement Capability	: 25% (TS EN ISO 11600)	
	Glossy	**Matte**
Density	: 1.02 ± 0.02 g/cm³	1.35 ± 0.05 g/cm³
Surface Dry Time	: 10 ± 5 minutes	10 ± 5 minutes
Curing Rate	: 3 mm / 24 hours	3 mm / 24 hours
Hardness (Shore A)	: 22 ± 5	36 ± 5
Tensile Strength	: ≥ 1 MPa	≥ 1 MPa
Elongation at Break	: > 500% (14 days)	> 400% (14 days)

SS 937
Aquarium Silicone Sealant

Description:
High quality, **100% silicone**, single component (acetoxy), **solvent-free** sealant cured with the moisture in the air. Specifically developed for **aquariums** and can be used indoor and outdoor.

Application Areas:
- Indoor and outdoor,
- Inside the aquariums,
- Potable water tanks.

Advantages:
- **Single component**, easy to apply.
- Not harmful to fish and other aquarium organisms.
- Does not contain **solvent**, durable. Does not shrink, sag or peel off.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- **Resistant to UV**, does not crack or turn to yellow. Resistant to abrasion.
- Not affected from weather conditions after one hour when cured.
- Protects its elasticity even at low and high temperatures (-40°C and +150°C) once cured.
- Resistant to detergents, cleaning materials and diluted chemical solutions.
- Not harmful or toxic.

Consumption:
Varies depending on the application surface.

Packaging:
Net 300 ml plastic cartridges

Technical Properties	
Appearance	: High viscosity silicone sealant
Color	: Pls. see the color chart on page 39
Density	: 1.01 ± 0.02 g/cm³
Application Temperature	: Between +5°C and +35°C
Surface Dry Time	: 20 ± 5 minutes
Curing Rate	: 3 mm / 24 hours
Hardness (Shore A)	: 25 ± 5
Tensile Strength	: ≥ 1 MPa
Elongation at Break	: > 400% (14 days)
Service Temperature	: Between -40°C and +150°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

SS 939
Mirror Silicone Sealant

Description:
High quality, **100% silicone**, single component, neutral, solvent-free sealant cured with the moisture in the air for bonding of **mirrors** and ceramics without damaging the glazed surfaces.

Application Areas:
- Indoor and outdoor,
- Bonding of all kinds of mirrors,
- Joint combinations of glass, aluminum and glazed surfaces,
- Bonding of the wall tiles and accessories with glazed surfaces.

Advantages:
- **Single component**, easy to apply.
- Can be used in fixing mirrors in different shapes and designs to aluminum, glass, ceramic, concrete and wooden surfaces.
- Does not contain **solvent**, durable. Does not shrink, sag or peel off.
- **Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Tolerates small movements and protects its sealing properties in joints, thanks to its **high adhesion** property.
- Highly elastic and turns to its original form without being distorted.
- Not affected from weather conditions after one hour when cured.
- Prevents mold and fungus formation.
- Odorless.
- Protects its elasticity even at low and high temperatures (-40°C and +150°C) once cured.
- Not harmful or toxic.

Consumption:
Varies depending on the application surface.

Packaging:
Net 300 ml plastic cartridges

Technical Properties	
Appearance	: High viscosity silicone sealant
Color	: Pls. see the color chart on page 39
Density	: 1.02 ± 0.02 g/cm^3
Application Temperature	: Between +5°C and +35°C
Surface Dry Time	: 10 ± 5 minutes
Curing Rate	: 3 mm / 24 hours
Hardness (Shore A)	: 22 ± 5
Tensile Strength	: ≥ 1 MPa
Elongation at Break	: > 400% (14 days)
Service Temperature	: Between -40°C and +150°C

PU 960
Multi-Purpose Polyurethane Foam

Description:
Single component, multi-purpose **polyurethane** foam which is cured by expanding with the moisture in the air.

Application Areas:
- Inner and outer expansion joints of buildings,
- Terrace dilatations,
- Installation and insulation of frames of doors and windows,
- Insulation of hot and cold water pipes, electrical installations,
- Filling gaps, wide cracks and holes.

Advantages:
- Bonds perfectly on all types (except PE, PP, PTFE) of surfaces.
- Has high thermal and acoustic insulation property.
- Resistant to all kinds of weather conditions and vapor.
- Water impermeable, mould resistant and overpaintable.
- Expands up to 40 liters depending on moisture and temperature.
- Does not contain propellant gases harmful to ozone layer.

Consumption:
Varies depending on the application area. Consumption can be controlled by the angle of the spray and the applied pressure.

Packaging:
750 ml (600 g) and 750 ml (850 g) pressurized tin cans

Technical Properties	
Appearance	: Light yellow - white colored foam
Density	: 25 ± 3 g/cm^3 (ASTM D1622)
Surface Dry Time	: 7 - 12 minutes (ASTM C1620) (1 cm width)
Cutting Time	: 35 - 45 minutes (ASTM C1620) (1 cm width)
Fire Class (Cured Foam)	: B3 (DIN 4102)
Expansion Ratio	: 150 - 200%
Compressive Strength	: 3 N/mm^2 (DIN 53421)
Yield	: 35 - 40 L/1000 ml (ASTM C 1536)
Thermal Conductivity	: 0.030 W/mK (20°C) (DIN 52612)
Application Temperature	: Between +5°C and +30°C
Service Temperature	: Between -40°C and +80°C

PU 962
Multi-Purpose Professional Polyurethane Foam

Description:
Single component, multi-purpose **polyurethane** foam which is cured by expanding with the moisture in the air, used with its special application gun.

Application Areas:
- Inner and outer expansion joints of buildings,
- Terrace dilatations,
- Installation and insulation of frames of doors and windows,
- Insulation of hot and cold water pipes, electrical installations,
- Filling gaps, wide cracks and holes.

Advantages:
- Bonds perfectly on all types (except PE, PP, PTFE) of surfaces.
- Dries faster and is more elastic than foams with straw applicator.
- Has high thermal and acoustic insulation property.
- Resistant to all kinds of weather conditions and vapor.
- Water impermeable, mould resistant and overpaintable.
- Expands up to 55 liters depending on moisture and temperature.
- Does not contain propellant gases harmful to ozone layer.

Consumption:
Varies depending on the application area. Consumption can be controlled by the angle of the spray and the applied pressure.

Packaging:
750 ml (850 g) pressurized tin cans

Technical Properties	
Appearance	: Light yellow - white colored foam
Density	: 20 ± 3 g/cm^3 (ASTM D1622)
Surface Dry Time	: 7 - 10 minutes (ASTM C1620) (1 cm width)
Cutting Time	: 25 - 35 minutes (ASTM C1620) (1 cm width)
Fire Class (Cured Foam)	: B3 (DIN 4102)
Expansion Ratio	: 70 - 100%
Compressive Strength	: 2.5 N/mm^2 (DIN 53421)
Yield	: 45 - 55 L/1000 ml (ASTM C 1536)
Thermal Conductivity	: 0.030 W/mK (20°C) (DIN 52612)
Application Temperature	: Between +5°C and +30°C
Service Temperature	: Between -40°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

Sealants and Technical Adhesives Color Chart

Product Colors	MS Polymer Waterproofing Products		Hybrid Polymer Waterproofing Products		MS Polymer Sealants		Polyurethane Sealants		Acrylic Sealants	Silicone Sealants												MS Polymer Adhesives					Silicone Adhesives
	POLYMERA MS	POLYMERA MS FLUID	AQUAMER HB	AQUAMER HB INVISIBLE	POLYMERA MS 925	POLYMERA MS 940	PU 970	PU 971	AS 910	SS 930E	SS 930	SS 930X	SS 931	SS 932	SS 932X	SS 933 RTV	SS 934 CONSTRUCTION (Matte)	SS 934 CONSTRUCTION (Glossy)	SS 994 FACADE	SS 935	SS 936	SS 937	SS 939	POLYMERA MS 950	POLYMERA MS 960	POLYMERA MS 965	POLYMERA MS 953	RAPIDO HIGH TACK	EPDM BOND
Transparent				✓						✓	✓	✓	✓	✓	✓			✓		✓	✓	✓	✓				✓		
White					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓	✓		✓			✓		✓	
Off White																								✓					
Grey	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓					✓			✓	✓			✓		✓		✓	
Silver Grey											✓	✓						✓											
RAL 7046																	✓												
Anthracite						✓					✓	✓					✓							✓					
Black					✓	✓	✓	✓	✓		✓	✓	✓				✓		✓	✓	✓	✓		✓	✓	✓		✓	✓
Cream											✓	✓					✓												
Beige											✓	✓					✓												
Bronze											✓	✓						✓											
Silvery Copper																		✓						✓					
Golden Oak									✓		✓	✓					✓												
Dark Brown					✓	✓			✓		✓	✓					✓			✓	✓			✓					
Red																✓													

**All colors shown in this catalogue are the closest to the original colors, depending on the printing techniques. It may show slight differences with the original colors. The table above is for the standard and special colors in the FİXA price list. Other RAL colors are produced upon request.*

REPAIR, REINFORCEMENT and RESTORATION

REPAIRFIX® 5
Fine Repair Mortar

Description:
Cement based, single component, polymer added, **fine aggregated** surface repair and smoothing mortar which offers a smooth finishing in concrete surfaces. Complies with **R2** class.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Restorations,
- Repairing concrete and prefabricated concrete elements,
- Smoothing and repairing wall and ceiling plaster,
- Prior to painting, ceramic covering and waterproofing in order to have a flat and sound surface. **Suitable for static cracks up to 5 mm**.

Advantages:
- Does not cause cracking and dusting.
- Only mixed with water and easy to apply.
- Dries quickly and allows utilization in a short period of time.
- Provides high adherence without primer.
- Resistant to water and freeze-thaw cycle.
- Can be produced as fiber reinforced upon request.

Consumption:
1.5 kg/m^2 (for 1 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5 - 6 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 30 minutes
Application Temperature	: Between +5°C and +35°C
Bond Strength by Pull-off	: ≥ 0.8 N/mm^2 (EN 1542)
Flexural Strength	: ≥ 4 N/mm^2 (EN 196-1)
Compressive Strength	: ≥ 15 N/mm^2 (EN 12190)
Service Temperature	: Between -20°C and +70°C

REPAIRFIX® 5W
Fine Repair Mortar (White)

Description:
White cement based, single component, polymer added, **fine aggregated** surface repair and smoothing mortar which offers a smooth finishing in concrete surfaces. Complies with **R2** class.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Restorations,
- Repairing concrete and prefabricated concrete elements,
- Smoothing and repairing wall and ceiling plaster,
- Prior to painting, ceramic covering and waterproofing in order to have a flat and sound surface. **Suitable for static cracks up to 5 mm**.

Advantages:
- Decorative due to its white color.
- Does not cause cracking and dusting.
- Only mixed with water and easy to apply.
- Dries quickly and allows utilization in a short period of time.
- Provides high adherence without primer.
- Resistant to water and freeze-thaw cycle.
- Can be produced as fiber reinforced upon request.

Consumption:
1.5 kg/m^2 (for 1 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 30 minutes
Application Temperature	: Between +5°C and +35°C
Bond Strength by Pull-off	: ≥ 0.8 N/mm^2 (EN 1542)
Compressive Strength	: ≥ 15 N/mm^2 (EN 12190)
Service Temperature	: Between -20°C and +70°C

REPAIRFIX® 30
Coarse Repair Mortar

Description:
Cement based, single component, polymer and fiber added, **coarse aggregated** surface repair and smoothing mortar which offers a smooth finishing in concrete surfaces. Complies with **R2** class.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Restorations,
- Repairing concrete and prefabricated concrete elements,
- Smoothing and repairing wall and ceiling plaster,
- Prior to painting, ceramic covering and waterproofing in order to have a flat and sound surface. **Suitable for static cracks up to 30 mm**.

Advantages:
- Does not cause cracking and dusting.
- Only mixed with water and easy to apply.
- Dries quickly and allows utilization in a short period of time.
- Provides high adherence without primer.
- Resistant to water and freze-thaw cycle.
- Fiber reinforced.

Consumption:
2 kg/m^2 (for 1 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored coarse powder
Powder Density	: ~ 1.50 kg/L
Water Mixing Ratio	: 4.5 - 5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 30 minutes
Application Temperature	: Between +5°C and +35°C
Bond Strength by Pull-off	: ≥ 0.8 N/mm^2 (EN 1542)
Flexural Strength	: ≥ 5 N/mm^2 (EN 196-1)
Compressive Strength	: ≥ 15 N/mm^2 (EN 12190)
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

REPAIRFIX® 30W

Coarse Repair Mortar (White)

Description:
White cement based, single component, polymer and fiber added, **coarse aggregated** surface repair and smoothing mortar which offers a smooth finishing in concrete surfaces. Complies with **R2** class.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Restorations,
- Repairing concrete and prefabricated concrete elements,
- Smoothing and repairing wall and ceiling plaster,
- Prior to painting, ceramic covering and waterproofing in order to have a flat and sound surface. **Suitable for static cracks up to 30 mm**.

Advantages:
- Decorative due to its white color.
- Does not cause cracking and dusting.
- Only mixed with water and easy to apply.
- Dries quickly and allows utilization in a short period of time.
- Provides high adherence without primer.
- Resistant to water and freeze-thaw cycle.
- Fiber reinforced.

Consumption:
2 kg/m^2 (for 1 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored coarse powder
Powder Density	: ~ 1.50 kg/L
Water Mixing Ratio	: 5 - 5.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 30 minutes
Application Temperature	: Between +5°C and +35°C
Bond Strength by Pull-off	: ≥ 0.8 N/mm^2 (EN 1542)
Flexural Strength	: ≥ 5 N/mm^2 (EN 196-1)
Compressive Strength	: ≥ 15 N/mm^2 (EN 12190)
Service Temperature	: Between -30°C and +80°C

REPAIRGROUT EXPAN T60

High Strength Shrinkage Compensated Grout Mortar

Description:
Cement based, single component, **shrinkage compensated**, **thixotropic**, **high strength structural** grout mortar. Complies with **R4** class.

Application Areas:
- Indoor and outdoor,
- Horizontal, vertical and overhead repair applications,
- Repairs that require early high strength,
- Repairing reinforced concrete construction elements and floors,
- Repairing concrete with segregation,
- Grouting joints that exist between old and new concrete,
- Grouting tie-rod holes, core holes and chamfering applications,
- Grouting the gaps that exist around the installation pipes and elements.

Advantages:
- Does not shrink, has thixotropic consistency.
- Provides high compressive strength.
- Resistant to impacts and vibrations.
- Provides high adherence to concrete and reinforcement.
- Resistant to water and frost.
- Does not contain corrosive materials.
- Only mixed with water, easy to apply.

Consumption:
Approximately 20 kg/m^2 (for 10 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored powder
Powder Density	: ~ 1.50 kg/L
Water Mixing Ratio	: 3.9 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 45 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 1 day : ≥ 30 N/mm^2 (EN 12190) 7 days : ≥ 50 N/mm^2 (EN 12190) 28 days : ≥ 60 N/mm^2 (EN 12190)
Application Thickness / Layer	: Min. 10 mm, Max. 50 mm
Walk-on Time	: 24 hours

REPAIRGROUT EXPAN-S T60

High Strength Sulphate Resistant Shrinkage Compensated Grout Mortar

Description:
Cement based, single component, **sulphate resistant**, **shrinkage compensated**, **thixotrophic**, **high strength structural** grout mortar. Complies with **R4** class.

Application Areas:
- Indoor and outdoor,
- Horizontal, vertical and overhead repair applications,
- Repairing and protecting reinforced concrete surfaces which are exposed to sulphate and corrosive salts,
- Repairing and protecting bridges, canals and ports thanks to its resistance to sulphate,
- Maintenance and repair of marine buildings,
- Repairs that require early high strength,
- Repairing reinforced concrete construction elements and floors,
- Repairing concrete with segregation,
- Grouting joints that exist between old and new concrete,
- Grouting tie-rod holes, core holes and chamfering applications,
- Grouting the gaps that exist around the installation pipes and elements.

Advantages:
- Resistant to sulphate and corrosive salt attacks, protects reinforced concrete buildings against segregation.
- Does not shrink, has thixotropic consistency.
- Provides high compressive strength.
- Resistant to impacts and vibrations.
- Provides high adherence to concrete and reinforcement.
- Resistant to water and frost.
- Does not contain corrosive materials.
- Only mixed with water, easy to apply.

Consumption:
Approximately 20 kg/m^2 (for 10 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored powder
Powder Density	: ~ 1.50 kg/L
Water Mixing Ratio	: 3.9 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 45 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 1 day : ≥ 30 N/mm^2 (EN 12190) 7 days : ≥ 50 N/mm^2 (EN 12190) 28 days : ≥ 60 N/mm^2 (EN 12190)
Application Thickness / Layer	: Min. 10 mm, Max. 50 mm
Walk-on Time	: 24 hours

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

REPAIRGROUT EXPAN T45

High Strength Shrinkage Compensated Grout Mortar

Description:
Cement based, single component, **shrinkage compensated**, **thixotropic**, **high strength structural** grout mortar. Complies with **R4** class.

Application Areas:
- Indoor and outdoor,
- Horizontal, vertical and overhead repair applications,
- Repairs that require early high strength,
- Repairing reinforced concrete, prefabricated construction elements and floors,
- Repairing concrete with segregation,
- Grouting joints that exist between old and new concrete,
- Grouting tie-rod holes, core holes and chamfering applications,
- Grouting the gaps that exist around the installation pipes and elements,
- Reinforcing the connections of the shear walls and the beams.

Advantages:
- Does not shrink, has thixotropic consistency.
- Provides high compressive strength, can be used in structural repairs.
- Resistant to impacts and vibrations.
- Provides high adherence to concrete and reinforcement.
- Resistant to water and frost.
- Does not contain corrosive materials.
- Only mixed with water, easy to apply.
- Does not cause segregation.
- Economical.

Consumption:
Approximately 20 kg/m^2 (for 10 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored powder
Powder Density	: ~ 1.50 kg/L
Water Mixing Ratio	: 3.9 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 30 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 1 day : ≥ 20 N/mm^2 (EN 12190) 7 days : ≥ 35 N/mm^2 (EN 12190) 28 days : ≥ 45 N/mm^2 (EN 12190)
Application Thickness / Layer	: Min. 10 mm, Max. 50 mm
Walk-on Time	: 24 hours

REPAIRGROUT EXPAN T35

High Strength Shrinkage Compensated Grout Mortar

Description:
Cement based, single component, **shrinkage compensated**, **thixotropic**, **high strength structural** grout mortar. Complies with **R3** class.

Application Areas:
- Indoor and outdoor,
- Horizontal, vertical and overhead repair applications,
- Repairing reinforced concrete, prefabricated construction elements and floors,
- Repairing concrete with segregation, cracks and deterioration,
- Grouting joints that exist between old and new concrete,
- Grouting the gaps that exist around the installation pipes and elements.

Advantages:
- Does not shrink, has thixotropic consistency.
- Provides high compressive strength.
- Provides adhesion to concrete and reinforcement.
- Resistant to water and frost.
- Does not cause corrosion.
- Only mixed with water, easy to apply.
- Does not cause segregation.
- Economical.

Consumption:
Approximately 20 kg/m^2 (for 10 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored powder
Powder Density	: ~ 1.50 kg/L
Water Mixing Ratio	: 3.9 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 30 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 1 day : ≥ 20 N/mm^2 (EN 12190) 7 days : ≥ 30 N/mm^2 (EN 12190) 28 days : ≥ 35 N/mm^2 (EN 12190)
Application Thickness / Layer	: Min. 10 mm, Max. 50 mm
Walk-on Time	: 24 hours

REPAIRGROUT GP F65

Shrinkage Compensated Flowable Grout and Anchoring Mortar

Description:
Cement based, single component, **shrinkage compensated**, **high strength structural** grout and anchoring mortar in **fluid consistency**. Complies with **R4** class, does not segregate or bleed.

Application Areas:
- Indoor and outdoor,
- Anchoring and bedding of machinery feet,
- As a flowable grout mortar, in hard to access areas,
- Repairs that require early high strength,
- Filling and strengthening the gaps and cavities between column and beam joints,
- Repairs of segregated concrete by using mold.

Advantages:
- Due to its flowability, it can grout gaps which are hard to access and can be applied easily with a pump.
- Prevents shrinkage after setting.
- High strength and flowable concrete can be obtained by mixing with number I clean aggregate by 25%.
- Has early high compressive strength.
- Resistant to oil and water permeability due to its high density.
- Does not contain metallic aggregate and chlorine.
- Only mixed with water, easy to apply.

Consumption:
Appr. 18 - 20 kg/m^2 (for 10 mm thickness)
2 kg powder product is used for 1 L mortar.

Packaging:
20 kg kraft bags

Technical Properties	
Appearance	: Grey colored powder
Powder Density	: ~ 1.40 kg/L
Water Mixing Ratio	: 2.80 L water / 20 kg powder
Resting Period	: 2 - 3 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 1 day : ≥ 30 N/mm^2 (EN 12190) 7 days : ≥ 50 N/mm^2 (EN 12190) 28 days : ≥ 65 N/mm^2 (EN 12190)
Application Thickness / Layer	: Min. 10 mm, Max. 50 mm
Walk-on Time	: 24 hours

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

REPAIRGROUT GP-S F65

Shrinkage Compensated Flowable Sulphate Resistant Grout and Anchoring Mortar

Description:
Cement based, single component, **sulphate resistant**, **shrinkage compensated**, **high strength structural** grout and anchoring mortar in **fluid consistency**. Complies with **R4** class, does not segregate or bleed.

Application Areas:
- Indoor and outdoor,
- As a flowable grout mortar, in hard to access areas (under soil and water etc.) of reinforced concrete buildings which are exposed to sulphate and corrosive salts,
- Repairing bridges, canals and ports thanks to its resistance to the sulphate,
- Maintenance and repair of marine buildings,
- Anchoring and bedding of machinery feet,
- Repairs that require early high strength,
- Filling and strengthening the gaps and cavities between column and beam joints,
- Repairs of segregated concrete by using mold.

Advantages:
- Resistant to sulphate and corrosive salt attacks, protects reinforced concrete buildings against segregation.
- Due to its flowability, it can grout hard to access gaps and can be applied easily with a pump.
- Prevents shrinkage after setting.
- High strength and flowable concrete can be obtained by mixing with number I clean aggregate by 25%.
- Has early high compressive strength.
- Resistant to oil and water permeability due to its high density.
- Does not contain metallic aggregate and chlorine.
- Only mixed with water, easy to apply.

Consumption:
Appr. 18 - 20 kg/m^2 (for 10 mm thickness)
2 kg powder product is used for 1 L mortar.

Packaging:
20 kg kraft bags

Technical Properties	
Appearance	: Grey colored powder
Powder Density	: ~ 1.40 kg/L
Water Mixing Ratio	: 2.80 L water / 20 kg powder
Resting Period	: 2 - 3 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 1 day : ≥ 30 N/mm^2 (EN 12190) 7 days : ≥ 50 N/mm^2 (EN 12190) 28 days : ≥ 65 N/mm^2 (EN 12190)
Application Thickness / Layer	: Min. 10 mm, Max. 50 mm
Walk-on Time	: 24 hours

REPAIRGROUT GP F50

Shrinkage Compensated Flowable Grout and Anchoring Mortar

Description:
Cement based, single component, **shrinkage compensated**, **high strength structural** grout and anchoring mortar in **fluid consistency**. Complies with **R4** class, does not segregate or bleed.

Application Areas:
- Indoor and outdoor,
- Anchoring and bedding of machinery feet,
- As a flowable grout mortar, in hard to access areas,
- Repairs that require early high strength,
- Filling and strengthening the gaps and cavities between column and beam joints,
- Repairs of segregated concrete by using mold.

Advantages:
- Due to its flowability it can grout gaps which are hard to access and can be applied easily with a pump.
- Prevents shrinkage after setting.
- High strength and flowable concrete can be obtained by mixing with number I clean aggregate by 25%.
- Has early high compressive strength.
- Resistant to oil and water permeability due to its high density.
- Does not contain metallic aggregate and chlorine.
- Economical.
- Only mixed with water, easy to apply.

Consumption:
Appr. 18 - 20 kg/m^2 (for 10 mm thickness)
2 kg powder product is used for 1 L mortar.

Packaging:
20 kg kraft bags

Technical Properties	
Appearance	: Grey colored powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 3.36 L water / 20 kg powder
Resting Period	: 2 - 3 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 1 day : ≥ 30 N/mm^2 (EN 12190) 7 days : ≥ 35 N/mm^2 (EN 12190) 28 days : ≥ 50 N/mm^2 (EN 12190)
Application Thickness / Layer	: Min. 10 mm, Max. 50 mm
Walk-on Time	: 24 hours

REPAIRGROUT GP F40

Shrinkage Compensated Flowable Grout and Anchoring Mortar

Description:
Cement based, single component, **shrinkage compensated**, **high strength structural** grout and anchoring mortar in **fluid consistency**. Complies with **R3** class, does not segregate or bleed.

Application Areas:
- Indoor and outdoor,
- As a flowable grout mortar, in hard to access areas,
- Repairs that require high strength,
- Filling and strengthening the gaps and cavities between column and beam joints,
- Repairs of segregated concrete by using mold.

Advantages:
- Due to its flowability, it can grout gaps which are hard to access and can be applied easily with a pump.
- Prevents shrinkage after setting.
- High strength and flowable concrete can be obtained by mixing with number I clean aggregate by 25%.
- Has high compressive strength.
- Does not contain metallic aggregate and chlorine.
- Economical.
- Only mixed with water, easy to apply.

Consumption:
Appr. 18 - 20 kg/m^2 (for 10 mm thickness)
2 kg powder product is used for 1 L mortar.

Packaging:
20 kg kraft bags

Technical Properties	
Appearance	: Grey colored powder
Powder Density	: ~ 1.50 kg/L
Water Mixing Ratio	: 3.36 L water / 20 kg powder
Resting Period	: 2 - 3 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 1 day : ≥ 20 N/mm^2 (EN 12190) 7 days : ≥ 25 N/mm^2 (EN 12190) 28 days : ≥ 40 N/mm^2 (EN 12190)
Application Thickness / Layer	: Min. 10 mm, Max. 50 mm
Walk-on Time	: 24 hours

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

REPAIRGROUT FAST

Fast Setting Shrinkage Compensated Flowable Grout Mortar

Description:
Cement based, single component, **shrinkage compensated**, **fast setting**, **high strength structural** grout mortar in **fluid** consistency which does not segregate or bleed. Complies with **R4** class.

Application Areas:
- Indoor and outdoor,
- Elevating manhole covers,
- Assembling paving stones and curbs,
- Anchoring poles and city furnitures,
- Anchoring machinery feet,
- Repairing concrete slab, runways and heliports,
- Repairs that will be put into use quickly and requires high strength,
- In the joints of prefabricated concrete elements,
- Filling the gaps in places that are hard to access.

Advantages:
- Setting is completed not later than 20 minutes after application. Can be open to use in 1 - 2 hours.
- Due to its flowability it can grout gaps and can be applied easily with a pump.
- Prevents shrinkage after setting.
- High strength and flowable concrete can be obtained by mixing with number I clean aggregate by 25%.
- Resistant to oil and water permeability thanks to its high density.
- Does not contain metallic aggregate and chlorine.
- Only mixed with water, easy to apply.

Consumption:
Appr. 20 kg/m^2 (for 10 mm thickness)

Packaging:
25 kg kraft bags

Tested by ISTON A.Ş. 11.10.2019
Report no: NHHA 1900380 - NHHA 1900381

Technical Properties	
Appearance	: Grey colored powder
Powder Density	: ~ 1.40 kg/L
Water Mixing Ratio	: 3.25 - 4 L water / 25 kg powder
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 1 hour : ≥ 10 N/mm^2 (EN 12190) 28 days : ≥ 45 N/mm^2 (EN 12190)
Application Thickness / Layer	: Min. 10 mm, Max. 50 mm
Walk-on Time	: 2 hours

RENOVAFIX® HK

Natural Hydraulic Lime (NHL 3.5)

Description:
Natural hydraulic lime for **restoration of masonry buildings**, repairing plaster and as a binder in historical building repairing mortars like special Horasan mortar.

Application Areas:
- Indoor and outdoor,
- Restoration of historical buildings,
- Repairing plaster and wall joints,
- Repair mortars,
- Repairing the cracks of masonry buildings, arches, domes and vaults,
- Stone, brick and masonry works of historical buildings,
- Preparing special Horasan mortar.

Advantages:
- Does not contain cement.
- Water vapor permeable, allows the surface to breathe.
- Has 3.5 N/mm^2 compressive strength.
- Easy to prepare and apply.
- Compatible with historial buildings.
- Suitable to use in restoration where optimum pressure is required.
- Can be used both in plasters and in repair mortars.
- Is the most appropriate natural hydraulic lime for restoration of historical buildings.

Consumption:
Varies depending on the application.

Packaging:
20 kg kraft bags

Technical Properties	
Appearance	: Off white colored powder
Powder Density	: 0.60 ± 0.1 kg/L
Water Mixing Ratio	: Varies depending on the fillers and other additives
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: ≥ 3.5 N/mm^2 (EN 1015-11)

RENOVAFIX® PL

Pozzolanic Lime Based Historical Building Repair Mortar

Description:
Pozzolanic lime based, single component, fiber supported, **cement-free**, high strength, thixotropic repair mortar for historical buildings.

Application Areas:
- Indoor and outdoor,
- Repairing and reinforcing historical masonry buildings,
- Repairing stone, brick or alternating textured walls for reinforcement,
- Repairing or reconstructing masonry buildings, arches, domes and vaults,
- Repairing and strengthening of masonry foundations.

Advantages:
- Does not contain cement.
- Easy to prepare and apply.
- Has high mechanical resistance.
- Has high adhesion strength.
- Water vapor permeable, allows the surface to breathe.
- Has low capillary water absorption.
- Does not crack since it contains fibers.
- Resistant to efflorescence.
- Enviromentally friendly.
- Is the most appropriate product for repairing historical buildings since the water soluble salts in its content is limited.

Consumption:
16 -18 kg/m^2 (for 1 cm thickness)

Packaging:
20 kg kraft bags

Technical Properties	
Appearance	: Light beige colored powder
Powder Density	: 1.01 ± 0.1 kg/L
Water Mixing Ratio	: 4.4 - 4.8 L water / 20 kg powder
Resting Period	: ~ 5 minutes
Pot Life	: ~ 30 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: M10 (EN 1015-11)
Application Thickness	: 10 - 50 mm
Complete Curing Time	: 7 days

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

RENOVAFIX® NL

Natural Hydraulic Lime Based Ready-Mixed Plaster

Description:
Natural hydraulic lime based, single component, **cement-free**, fiber supported, special restoration plaster mortar for historical masonry buildings.

Application Areas:
- Indoor and outdoor,
- Smoothing plaster surfaces of historical buildings,
- Plastering the walls for restoration,
- Repairing the plastered surfaces and joints of natural stones and brick walls.

Advantages:
- Does not contain cement.
- Easy to prepare and apply.
- Adheres strongly on plastered surfaces.
- Water vapor permeable, allows the surface to breathe.
- Has low capillary water absorption.
- Does not crack since it contains fibers.
- Resistant to efflorescence.
- Environmentally friendly, does not contain asbestos.
- Is the most appropriate product for restoration of historical buildings since the water soluble salts in its content is limited.

Consumption:
Approximately 1.6 - 1.8 kg/m^2 (for 1 mm thickness)

Packaging:
20 kg kraft bags

Technical Properties	
Appearance	: Light beige colored powder
Powder Density	: 1.00 ± 0.1 kg/L
Water Mixing Ratio	: 4.8 - 5.2 L water / 20 kg powder
Resting Period	: ~ 5 minutes
Pot Life	: ~ 30 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS III (EN 1015-11)
Capillary Water Absorption	: W_0 (EN 1015-18)
Application Thickness	: 2 - 20 mm
Complete Curing Time	: 7 days

REPOX® 301

Thixotropic Epoxy Repair Mortar

Description:
Epoxy resin based, three component, solvent-free, **thixotropic** epoxy **mortar** for repairing damaged surfaces.

Application Areas:
- Indoor and outdoor, repairing reinforced concrete structures,
- Abrasion and impact-resistant filling and repairs,
- Sealing of (non-moving) crack fillings and corner repairs,
- As a repair mortar for the maintenance and repair of marine structures (such as piers and bridges) and in high-strength repairs of crane beams and legs,
- Repairing ceilings, columns and beams.

Advantages:
- Provides high mechanical strength.
- Highly resistant to abrasion and impact.
- Provides high adhesion to concrete and steel.
- Resistant to chemicals. Water impermeable.
- Has a high load-bearing capacity. Does not shrink.
- Consistency can be adjusted with its own aggregate, if desired.

Consumption:
Approximately 2 kg/m^2 (for 1 mm thickness)
7.5 L mortar is prepared with 15 kg of product.

Packaging:
Sets of 5 kg and 15 kg (A+B+C) tin buckets

Technical Properties		
Appearance - Color	: Component A (Resin): Liquid - grey Component B (Hardener): Liquid - light yellow Component C (Special size aggregate): Sand color	
Packaging (5 kg)	: Component A: 0.680 kg, Component B: 0.320 kg, Component C: 4 kg	
Packaging (15 kg)	: Component A: 2.040 kg, Component B: 0.960 kg, Component C: 12 kg	
Mixture Density	: 2.00 ± 0.06 g/cm^3 (TS EN ISO 2811-1)	
App. Temperature	: Between +10°C and 30°C	
Compressive Strength	: ≥ 50 N/mm^2 (TS EN 12190) 1 day ≥ 85 N/mm^2 (TS EN 12190) 7 days	
Flexural Strength	: ≥ 25 N/mm^2 (TS EN 12190) 1 day ≥ 30 N/mm^2 (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 2 N/mm^2 - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (5 kg)	: Temperature 10°C 20°C 30°C	Duration (TS EN ISO 9514) 120 minutes 60 minutes 30 minutes
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

REPOX® 302

Fluid Epoxy Anchoring and Assembly Mortar

Description:
Epoxy resin based, three component, solvent-free, **fluid**, corrosion-resistant, self-leveling **anchoring**, **assembly** and **casting** mortar with high adhesion, flexural and compressive strength.

Application Areas:
- Indoor and outdoor,
- As a repair and casting mortar,
- Rebar anchoring in reinforced concrete and structural materials,
- Fixing anchoring elements,
- Repairing wide cracks in horizontal,
- Highways, bridges, viaducts, dams,
- Anchoring guardrails on bridges, steel ladders, cranes and viaducts,
- Anchoring rebars to concrete, rock or walls,
- Assembly and anchoring of all types of metal and steel components to reinforced concrete, metal and steel surfaces.

Advantages:
- Provides high mechanical strength.
- Highly resistant to abrasion and impact.
- Provides high adhesion to concrete and steel.
- Has high load-bearing capacity.
- Consistency can be adjusted with its own aggregate, if desired.
- Does not shrink.

Consumption:
For appr. 1.95 kg/m^2 (for 1 mm thickness) 7.7 L mortar is prepared with 15 kg product. In anchoring and installation applications, the consumption varies depending on the hole diameter, depth and rebar diameter.

Rebar Diameter (mm)	Hole Diameter (mm)		Hole Depth (mm)		Epoxy Mortar Needed (g)	
	Min.	Max.	Min.	Max.	Min.	Max.
10	14	16	100	150	7.54	18.37
12	16	18	120	180	10.55	25.43
14	18	20	140	210	14.07	33.63
16	20	22	160	240	18.09	42.96
18	22	24	180	270	22.61	53.41
20	24	26	200	300	27.63	65.00
24	28	30	240	360	39.19	91.56

Packaging:
Sets of 5 kg and 15 kg (A+B+C) tin buckets

Technical Properties		
Appearance - Color	: Component A (Resin): Liquid - grey Component B (Hardener): Liquid - light yellow Component C (Special size aggregate): Sand color	
Packaging (5 kg)	: Component A: 0.685 kg, Component B: 0.315 kg, Component C: 4 kg	
Packaging (15 kg)	: Component A: 2.055 kg, Component B: 0.945 kg, Component C: 12 kg	
Mixture Density	: 1.95 ± 0.06 g/cm^3 (TS EN ISO 2811-1)	
App. Temperature	: Between +10°C and 30°C	
Compressive Strength	: ≥ 50 N/mm^2 (TS EN 12190) 1 day ≥ 85 N/mm^2 (TS EN 12190) 7 days	
Flexural Strength	: ≥ 25 N/mm^2 (TS EN 12190) 1 day ≥ 30 N/mm^2 (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 2 N/mm^2 - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (5 kg)	: Temperature 10°C 20°C 30°C	Duration (TS EN ISO 9514) 120 minutes 60 minutes 30 minutes
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

REPOX® 310

Epoxy Repair, Adhesive and Assembly Mortar

Description:
Epoxy resin based, double component, **solvent free**, **thixotropic**, structural **repair**, **adhesive** and **assembly** mortar.

Application Areas:
- Indoor and outdoor,

In structural adhesive applications:
- On concrete and prefabricated lightweight concrete structural materials,
- On iron, steel and aluminum,
- On wood, hard natural stone, brick, polyester, glass and epoxy surfaces,
- Bonding of expansion tapes.

In repair mortar applications:
- Repair of reinforced concrete structures such as columns, beams and shear walls,
- Repair of corners and edges,
- Repair of wide cracks,
- Repair of cracks and joint edges on industrial floors,
- Filling holes and voids.

Advantages:
- Does not shrink and provides high mechanical strength.
- Very resistant to abrasion and impact.
- Does not contain solvent, resistant to chemicals.
- Does not require primer and bonds well to many structural materials.
- Has high initial and final strength, adheres well.
- Thixotropic, does not sag in vertical applications.
- Combines bonding and filling properties in a single product.
- Components have different colors for mixing control.

Consumption:
For 1.65 - 3.3 kg/m² (for 1 - 2 mm thickness) 4.8 L mortar is prepared with 8 kg product.

Packaging:
Sets of 8 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Component A (Resin): Thix. paste - cream Component B (Hardener): Thix. liquid - dark grey	
Packaging	: Component A: 6 kg, Component B: 2 kg	
Mixture Density	: 1.65 ± 0.05 g/cm³ (TS EN ISO 2811-1)	
Application Temperature	: Between +10°C and 30°C	
Compressive Strength	: ≥ 65 N/mm² (TS EN 12190) 7 days	
Flexural Strength	: ≥ 40 N/mm² (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 2 N/mm² - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (8 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	60 minutes
	20°C	30 minutes
	30°C	15 minutes
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

REPOX® 340

Polyester Chemical Anchoring Adhesive

Description:
Polyester resin based, double component, fast curing, high strength, multi-purpose, chemical anchoring in cartridge.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Anchoring and mounting in areas exposed to extreme loads,
- Embedding and securing reinforcement bars,
- Structural strengthening applications,
- Installation of pipe connections, cable ducts, kitchen and bathroom fittings and window elements,
- Installation of awnings, shutters, sunshades and road signs,
- Assembly of billboards, lamps and lighting systems,
- Assembly of bolts, large screws, heavy-duty nails, satellite dishes, grilles, railings, balustrades and similar materials to surfaces like concrete and stone.

Advantages:
- Cures fast and has high strength.
- Can be applied on concrete, solid and hollow bricks, briquettes, natural stones, marble, granite and rocks.
- Can be applied on vertical and horizontal surfaces.
- Thixotropic, does not sag.
- Resistant to heat up to +80˚C.
- Resistant to most of the chemicals.

Consumption:
Varies depending on the volume of the application area.

Packaging:
300 and 345 ml cartridges

Technical Properties	
Mixture Density	: 1.70 ± 0.10 g/ml
Application Temperature	: Between +5°C and 30°C
Compressive Strength	: 84 MPa
Working Time	: 4 - 8 minutes (23°C, 50% humidity)
Curing Time (80% Strength)	: 45 - 60 minutes (23°C, 50% humidity)
Complete Curing Time (100% Strength)	: 24 hours (23°C)
Service Temperature	: Between -40°C and +80°C

REPOX® 400

Epoxy-Based Thixotropic Adhesive for Fiber-Reinforced Polymer Systems

Description:
Epoxy-based, double component, solvent-free, **thixotropic**, high strength, orange colored **saturating resin** and **adhesive** developed for **CARBOFIX** Systems.

Application Areas:
Indoor and outdoor, in structures to be reinforced with **CARBOFIX** Systems, for bonding of carbon fiber reinforcement fabrics to the surface and as a concrete reinforcement resin.

Advantages:
- Suitable for carbon fiber saturation and bonding applications. Has very high adhesion strength.
- Its orange color ensures ease of application control.
- Easy to mix and apply, penetrates well.
- Does not sag on horizontal and vertical applications.
- Does not contain solvent. Achieves high mechanical and chemical resistance after curing.

Consumption:
0.7 - 1.2 kg/m² for the first layer and 0.6 kg/m² for each subsequent layer of fiber. The consumption of REPOX 400 mixture varies depending on the level of reinforcement, assembly and bonding, as well as the weight and weave density of the carbon fiber fabric to be used.

Packaging:
Sets of 7 kg or 20 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Component A (Resin): Thix. liquid - orange Component B (Hardener): Liquid - light yellow	
Packaging (7 kg)	: Component A: 4.52 kg, Component B: 2.48 kg	
Packaging (20 kg)	: Component A: 12.90 kg, Component B: 7.10 kg	
Mixture Density	: 1.03 ± 0.03 g/cm³ (TS EN ISO 2811-1)	
Mixture Viscosity	: 17000 ± 3400 mPas (TS EN ISO 3219-2)	
App. Temperature	: Between +10°C and 30°C	
Hardness (Shore D)	: 75 ± 3 (TS EN ISO 868) 7 days	
Compressive Strength	: ≥ 45 N/mm² (TS EN 12190) 7 days	
Flexural Strength	: ≥ 50 N/mm² (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 3 N/mm² - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (7 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	60 minutes
	20°C	30 minutes
	30°C	20 minutes
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

REPOX® 400H

Epoxy-Based, Moisture-Tolerant, Thixotropic Adhesive for Fiber-Reinforced Polymer Systems

Description:
Epoxy-based, double component, solvent-free, **thixotropic**, high strength, **moisture-tolerant**, oxide yellow colored **saturating resin** and **adhesive** developed for **CARBOFIX** Systems.

Application Areas:
Indoor and outdoor, in structures to be reinforced with **CARBOFIX** Systems, for bonding of carbon fiber reinforcement fabrics to moist surface and as a concrete reinforcement resin.

Advantages:
- Suitable for carbon fiber saturation and bonding applications. Has very high adhesion strength.
- Can be applied on dry and moist surfaces.
- Its oxide yellow color ensures ease of application control.
- Easy to mix and apply, penetrates well.
- Does not sag on horizontal and vertical applications.
- Does not contain solvent. Achieves high mechanical and chemical resistance after curing.

Consumption:
0.7 - 1.2 kg/m^2 for the first layer and 0.6 kg/m^2 for each subsequent layer of fiber. The consumption of REPOX 400H mixture varies depending on the level of reinforcement, assembly and bonding, as well as the weight and weave density of the carbon fiber fabric to be used.

Packaging:
Sets of 7 kg or 20 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Component A (Resin): Thix. liquid - oxide yellow Component B (Hardener): Liquid - brown	
Packaging (7 kg)	: Component A: 4.52 kg, Component B: 2.48 kg	
Packaging (20 kg)	: Component A: 12.90 kg, Component B: 7.10 kg	
Mixture Density	: 1.06 ± 0.03 g/cm^3 (TS EN ISO 2811-1)	
Mixture Viscosity	: 18000 ± 3600 mPas (TS EN ISO 3219-2)	
App. Temperature	: Between +10°C and 30°C	
Hardness (Shore D)	: 75 ± 3 (TS EN ISO 868) 7 days	
Compressive Strength	: ≥ 60 N/mm^2 (TS EN 12190) 7 days	
Flexural Strength	: ≥ 50 N/mm^2 (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 2 N/mm^2 - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (7 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	60 minutes
	20°C	30 minutes
	30°C	20 minutes
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

REPOX® 405

Epoxy-Based Adhesive for Fiber-Reinforced Polymer Systems

Description:
Epoxy-based, double component, solvent-free, high strength, oxide red colored **saturating resin** and **adhesive** developed for **CARBOFIX** Systems.

Application Areas:
Indoor and outdoor, in structures to be reinforced with **CARBOFIX** Systems, for bonding of carbon fiber reinforcement fabrics to the surface and as a concrete reinforcement resin.

Advantages:
- Suitable for carbon fiber saturation and bonding applications. Has very high adhesion strength.
- Its oxide red color ensures ease of application control.
- Easy to mix and apply, penetrates well.
- Does not contain solvent. Achieves high mechanical and chemical resistance after curing.

Consumption:
0.7 - 1.2 kg/m^2 for the first layer and 0.6 kg/m^2 for each subsequent layer of fiber. The consumption of REPOX 405 mixture varies depending on the level of reinforcement, assembly and bonding, as well as the weight and weave density of the carbon fiber fabric to be used.

Packaging:
Sets of 7 kg or 20 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Component A (Resin): Liquid - oxide red Component B (Hardener): Liquid - light yellow	
Packaging (7 kg)	: Component A: 4.46 kg, Component B: 2.54 kg	
Packaging (20 kg)	: Component A: 12.74 kg, Component B: 7.26 kg	
Mixture Density	: 1.04 ± 0.03 g/cm^3 (TS EN ISO 2811-1)	
Mixture Viscosity	: 2000 ± 400 mPas (TS EN ISO 3219-2)	
App. Temperature	: Between +10°C and 30°C	
Hardness (Shore D)	: 75 ± 3 (TS EN ISO 868) 7 days	
Compressive Strength	: ≥ 45 N/mm^2 (TS EN 12190) 7 days	
Flexural Strength	: ≥ 50 N/mm^2 (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 3 N/mm^2 - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (7 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	60 minutes
	20°C	30 minutes
	30°C	20 minutes
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

REPOX® 410T

Epoxy-Based, Thixotropic Adhesive and Assembly Paste for Carbofix Plate Systems

Description:
Epoxy-based, double component, solvent-free, **thixotropic**, high strength, **adhesive** and **assembly** paste specially developed for **CARBOFIX Plate** Systems.

Application Areas:
Indoor and outdoor, for bonding and assembly of carbon fiber reinforcement plates to surfaces in structures to be reinforced with **CARBOFIX Plate** Systems.

Advantages:
- Suitable for assembly and bonding of carbon plates.
- Does not sag on vertical and overhead applications.
- Has very high adhesion strength.
- Does not contain solvent. Achieves high mechanical and chemical resistance after curing.

Consumption:
The consumption of REPOX 410T mixture varies depending on the level of reinforcement, assembly and bonding. Under low temperature conditions, the viscosity increases and the consumption may also increase.

Packaging:
Sets of 6 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Component A (Resin): Paste - cream Component B (Hardener): Liquid - dark grey	
Packaging	: Component A: 3 kg, Component B: 3 kg	
Mixture Density	: 1.60 ± 0.05 g/cm^3	
App. Temperature	: Between +10°C and 30°C	
Compressive Strength	: ≥ 40 N/mm^2 (TS EN 12190) 7 days	
Flexural Strength	: ≥ 20 N/mm^2 (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 3 N/mm^2 - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (6 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	60 minutes
	20°C	30 minutes
	30°C	20 minutes
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

CARBOFIX® Tex U 312

300 gr/m² Carbon Fiber Unidirectional Fabric (12K Weaving Density)

Description:
Structural reinforcement fabric made of mainly **carbonized acrylic fiber** (300gr/m² - 12K Weaving Density), **tar** and **thermoplastic yarn woven** unidirectionally. Thanks to its advanced technology, it is 5 times lighter however 3 times more resistant to stress than steel and is one of the most durable materials known. It can easily be shaped thanks to its soft yarn-like structure and gains a rigidity with the epoxy resins it is used with.

Application Areas:
- Indoor and outdoor,
- Reinforcement of buildings against earthquakes,
- Repair and reinforcement of columns, beams and shear walls of light - medium damaged structures,
- Reinforcing vaults and arches,
- Repair and reinforcement of corroded and damaged bridges, viaducts and overpasses,
- Restoration and repair of historical monuments.

Advantages:
- Increases the flexing capacity of the wrapped columns to a large extent and prevents fractures in the columns.
- Resistant to corrosion, extends the life of the building.
- Does not add extra weight to the structures.
- Very thin, does not cause any loss of space.
- Is a stronger but lighter reinforcement system than steel. Has no corrosion problem compared to steel.
- Easy to shape.
- When wrapped around the stirrup tightening areas of the column, acts as an additional stirrup and thus increases the shear capacity of the column.

Packaging:
Carton box (0.50m width x 50m length)

Technical Properties	
Color	: Black
Fiber Type	: Warp direction carbon yarn, weft direction thermoplastic yarn
Fiber Density	: 1.80 g/cm³
Weight (TS EN 12127)	: 300 ± 5% g/m²
Weight Ratio in 0° (Warp) Direction	: 99%
Weight Ratio in 90° (Weft) Direction	: 1%
Warp Density (TS 250 EN 1049-2)	: 36.50 ± 5% ends / 10 cm
Weft Density (TS 250 EN 1049-2)	: 10.00 ± 5% ends / 10 cm
Fabric Pattern / Orientation (TS 1635 ISO 2113)	: Unidirectional
Weaving Density	: 12K
Roll Size	: Width 0.50 ± 2.5% m x Length 50 m
Tensile Strength	: > 5500 MPa
Modulus of Elasticity	: ≥ 240000 MPa
Elongation at Break	: 1.8%

CARBOFIX® Tex U 324

300 gr/m² Carbon Fiber Unidirectional Fabric (24K Weaving Density)

Description:
Structural reinforcement fabric made of mainly **carbonized acrylic fiber** (300gr/m² - 24K Weaving Density), **tar** and **thermoplastic yarn woven** unidirectionally. Thanks to its advanced technology, it is 5 times lighter however 3 times more resistant to stress than steel and is one of the most durable materials known. It can easily be shaped thanks to its soft yarn-like structure and gains a rigidity with the epoxy resins it is used with.

Application Areas:
- Indoor and outdoor,
- Reinforcement of buildings against earthquakes,
- Repair and reinforcement of columns, beams and shear walls of light - medium damaged structures,
- Reinforcing vaults and arches,
- Repair and reinforcement of corroded and damaged bridges, viaducts and overpasses,
- Restoration and repair of historical monuments.

Advantages:
- Increases the flexing capacity of the wrapped columns to a large extent and prevents fractures in the columns.
- Resistant to corrosion, extends the life of the building.
- Does not add extra weight to the structures.
- Very thin, does not cause any loss of space.
- Is a stronger but lighter reinforcement system than steel. Has no corrosion problem compared to steel.
- Easy to shape.
- When wrapped around the stirrup tightening areas of the column, acts as an additional stirrup and thus increases the shear capacity of the column.

Packaging:
Carton box (0.50m width x 50m length)

Technical Properties	
Color	: Black
Fiber Type	: Warp direction carbon yarn, weft direction thermoplastic yarn
Fiber Density	: 1.78 g/cm³
Weight (TS EN 12127)	: 300 ± 5% g/m²
Weight Ratio in 0° (Warp) Direction	: 99%
Weight Ratio in 90° (Weft) Direction	: 1%
Warp Density (TS 250 EN 1049-2)	: 36.50 ± 5% ends / 10 cm
Weft Density (TS 250 EN 1049-2)	: 10.00 ± 5% ends / 10 cm
Fabric Pattern / Orientation (TS 1635 ISO 2113)	: Unidirectional
Weaving Density	: 24K
Roll Size	: Width 0.50 ± 2.5% m x Length 50 m
Tensile Strength	: 4200 - 4900 MPa
Modulus of Elasticity	: ≥ 240000 MPa
Elongation at Break	: 1.8%

CARBOFIX® Tex U 624

600 gr/m² Carbon Fiber Unidirectional Fabric (24K Weaving Density)

Description:
Structural reinforcement fabric made of mainly **carbonized acrylic fiber** (600gr/m² - 24K Weaving Density), **tar** and **thermoplastic yarn woven** unidirectionally. Thanks to its advanced technology, it is 5 times lighter however 3 times more resistant to stress than steel and is one of the most durable materials known. It can easily be shaped thanks to its soft yarn-like structure and gains a rigidity with the epoxy resins it is used with.

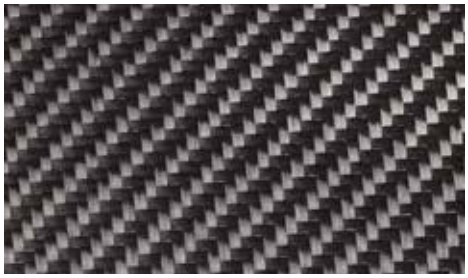
Application Areas:
- Indoor and outdoor,
- Reinforcement of buildings against earthquakes,
- Repair and reinforcement of columns, beams and shear walls of light - medium damaged structures,
- Reinforcing vaults and arches,
- Repair and reinforcement of corroded and damaged bridges, viaducts and overpasses,
- Restoration and repair of historical monuments.

Advantages:
- Increases the flexing capacity of the wrapped columns to a large extent and prevents fractures in the columns.
- Resistant to corrosion, extends the life of the building.
- Does not add extra weight to the structures.
- Very thin, does not cause any loss of space.
- Is a stronger but lighter reinforcement system than steel. Has no corrosion problem compared to steel.
- Easy to shape.
- When wrapped around the stirrup tightening areas of the column, acts as an additional stirrup and thus increases the shear capacity of the column.

Packaging:
Carton box (0.50m width x 50m length)

Technical Properties	
Color	: Black
Fiber Type	: Warp direction carbon yarn, weft direction thermoplastic yarn
Fiber Density	: 1.80 g/cm³
Weight (TS EN 12127)	: 600 ± 5% g/m²
Weight Ratio in 0° (Warp) Direction	: 99%
Weight Ratio in 90° (Weft) Direction	: 1%
Warp Density (TS 250 EN 1049-2)	: 36.50 ± 5% ends / 10 cm
Weft Density (TS 250 EN 1049-2)	: 10.00 ± 5% ends / 10 cm
Fabric Pattern / Orientation (TS 1635 ISO 2113)	: Unidirectional
Weaving Density	: 24K
Roll Size	: Width 0.50 ± 2.5% m x Length 50 m
Tensile Strength	: > 4900 MPa
Modulus of Elasticity	: ≥ 240000 MPa
Elongation at Break	: 1.8%

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.



CARBOFIX® Tex B 612T

600 gr/m² Carbon Fiber Bi-directional Fabric (12K Weaving Density)

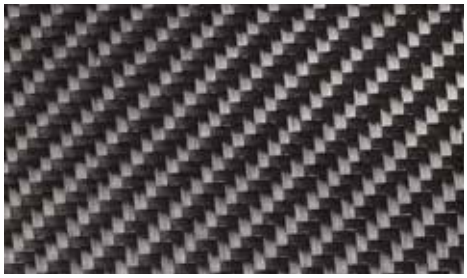
Description:
Structural reinforcement fabric made of mainly **carbonized acrylic fiber** (600gr/m² - 12K Weaving Density), **tar** and **thermoplastic yarn woven** bidirectionally. Thanks to its advanced technology, it is 5 times lighter however 3 times more resistant to stress than steel and is one of the most durable materials known. It can easily be shaped thanks to its soft yarn-like structure and gains a rigidity with the epoxy resins it is used with.

Application Areas:
- Indoor and outdoor,
- Reinforcement of buildings against earthquakes,
- Repair and reinforcement of columns, beams and shear walls of light - medium damaged structures,
- Reinforcing vaults and arches,
- Repair and reinforcement of corroded and damaged bridges, viaducts and overpasses,
- Restoration and repair of historical monuments.

Advantages:
- Increases the flexing capacity of the wrapped columns to a large extent and prevents fractures in the columns.
- Resistant to corrosion, extends the life of the building.
- Does not add extra weight to the structures.
- Very thin, does not cause any loss of space.
- Is a stronger but lighter reinforcement system than steel. Has no corrosion problem compared to steel.
- Easy to shape.
- When wrapped around the stirrup tightening areas of the column, acts as an additional stirrup and thus increases the shear capacity of the column.

Packaging:
Carton box (1m width x 50m length)

Technical Properties	
Color	: Black
Fiber Type	: Warp direction carbon yarn, weft direction thermoplastic yarn
Fiber Density	: 1.80 g/cm³
Weight (TS EN 12127)	: 600 ± 5% g/m²
Weight Ratio in 0° (Warp) Direction	: 50%
Weight Ratio in 90° (Weft) Direction	: 50%
Warp Density (TS 250 EN 1049-2)	: 36.50 ± 5% ends / 10 cm
Weft Density (TS 250 EN 1049-2)	: 36.50 ± 5% ends / 10 cm
Fabric Pattern / Orientation (TS 1635 ISO 2113)	: Twill / Bi-directional
Weaving Density	: 12K
Roll Size	: Width 1 ± 2.5% m x Length 50 m
Tensile Strength	: > 5500 MPa
Modulus of Elasticity	: ≥ 240000 MPa
Elongation at Break	: 1.8%



CARBOFIX® Tex B 624T

600 gr/m² Carbon Fiber Bi-directional Fabric (24K Weaving Density)

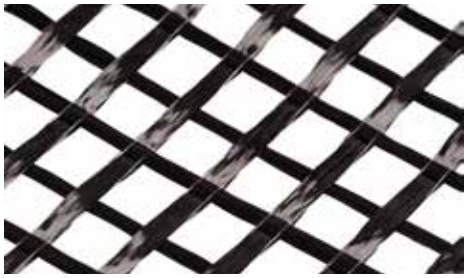
Description:
Structural reinforcement fabric made of mainly **carbonized acrylic fiber** (600gr/m² - 24K Weaving Density), **tar** and **thermoplastic yarn woven** bidirectionally. Thanks to its advanced technology, it is 5 times lighter however 3 times more resistant to stress than steel and is one of the most durable materials known. It can easily be shaped thanks to its soft yarn-like structure and gains a rigidity with the epoxy resins it is used with.

Application Areas:
- Indoor and outdoor,
- Reinforcement of buildings against earthquakes,
- Repair and reinforcement of columns, beams and shear walls of light - medium damaged structures,
- Reinforcing vaults and arches,
- Repair and reinforcement of corroded and damaged bridges, viaducts and overpasses,
- Restoration and repair of historical monuments.

Advantages:
- Increases the flexing capacity of the wrapped columns to a large extent and prevents fractures in the columns.
- Resistant to corrosion, extends the life of the building.
- Does not add extra weight to the structures.
- Very thin, does not cause any loss of space.
- Is a stronger but lighter reinforcement system than steel. Has no corrosion problem compared to steel.
- Easy to shape.
- When wrapped around the stirrup tightening areas of the column, acts as an additional stirrup and thus increases the shear capacity of the column.

Packaging:
Carton box (1m width x 50m length)

Technical Properties	
Color	: Black
Fiber Type	: Warp direction carbon yarn, weft direction thermoplastic yarn
Fiber Density	: 1.80 g/cm³
Weight (TS EN 12127)	: 600 ± 5% g/m²
Weight Ratio in 0° (Warp) Direction	: 50%
Weight Ratio in 90° (Weft) Direction	: 50%
Warp Density (TS 250 EN 1049-2)	: 36.50 ± 5% ends / 10 cm
Weft Density (TS 250 EN 1049-2)	: 36.50 ± 5% ends / 10 cm
Fabric Pattern / Orientation (TS 1635 ISO 2113)	: Twill / Bi-directional
Weaving Density	: 24K
Roll Size	: Width 1 ± 2.5% m x Length 50 m
Tensile Strength	: 4200 - 4900 MPa
Modulus of Elasticity	: ≥ 240000 MPa
Elongation at Break	: 1.8%



CARBOFIX® Grid K 240/2x2

Carbon Fiber Textile Reinforcement

Description:
Technical **textile reinforcement** produced made of **carbon fiber yarn**, used in the reinforcement of historical buildings, with a special grid-shaped structure that increases adherence and bearing strength. It weighs 240 g/m², it can easily be shaped thanks to its soft yarn-like structure and gains a rigid structure with the epoxy resins it is used with.

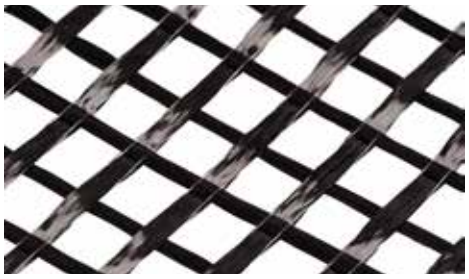
Application Areas:
- Indoor and outdoor,
- Restoration and repair of historical monuments increasing the carrying capacity of vaults, walls and domes of historical buildings,
- Reinforcement of masonry walls,
- Increasing safety measures in excavation areas,
- Retrofitting of historical buildings in accordance with the original,
- Ground stabilization,
- Structural reinforcement of elements such as columns, beams and slabs.

Advantages:
- Suitable for historical building.
- Easy to apply, has a special adherence enhancing coating to work together with reinforcement mortars.
- Used for floor and surface stabilization.
- Flexible, provides resistance against tensile stresses.
- No corrosion problem compared to steel.
- Has very high chemical resistance.

Packaging:
Standard

Technical Properties	
Color	: Black
Fiber Type	: Carbon fiber yarn
Fiber Density	: 1.80 g/cm³
Weight (TS EN 12127)	: 240 ± 5% g/m²
Weight Ratio in 0° (Warp) Direction	: 50%
Weight Ratio in 90° (Weft) Direction	: 50%
Weaving Density	: 24K
Design	: 20 x 20 mm gap distance
Length	: Standard
Width (TS 3427 ISO 5025)	: 1000 mm ± 2.50%
Tensile Strength	: > 4900 MPa
Modulus of Elasticity	: ≥ 240000 MPa

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.



CARBOFIX® Grid K 300/2x2

Carbon Fiber Textile Reinforcement

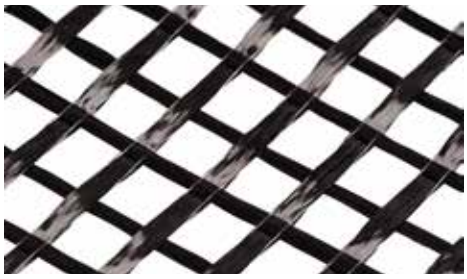
Description:
Technical **textile reinforcement** produced made of **carbon fiber yarn**, used in the reinforcement of historical buildings, with a special grid-shaped structure that increases adherence and bearing strength. It weighs 300 g/m^2, it can easily be shaped thanks to its soft yarn-like structure and gains a rigid structure with the epoxy resins it is used with.

Application Areas:
- Indoor and outdoor,
- Restoration and repair of historical monuments increasing the carrying capacity of vaults, walls and domes of historical buildings,
- Reinforcement of masonry walls,
- Increasing safety measures in excavation areas,
- Retrofitting of historical buildings in accordance with the original,
- Ground stabilization,
- Structural reinforcement of elements such as columns, beams and slabs.

Advantages:
- Suitable for historical building.
- Easy to apply, has a special adherence enhancing coating to work together with reinforcement mortars.
- Used for floor and surface stabilization.
- Flexible, provides resistance against tensile stresses.
- No corrosion problem compared to steel.
- Has very high chemical resistance.

Packaging:
Standard

Technical Properties	
Color	: Black
Fiber Type	: Carbon fiber yarn
Fiber Density	: 1.80 g/cm^3
Weight (TS EN 12127)	: 300 ± 5% g/m^2
Weight Ratio in 0° (Warp) Direction	: 50%
Weight Ratio in 90° (Weft) Direction	: 50%
Weaving Density	: 24K
Design	: 20 x 20 mm gap distance
Length	: Standard
Width (TS 3427 ISO 5025)	: 1000 mm ± 2.50%
Tensile Strength	: > 4900 MPa
Modulus of Elasticity	: ≥ 240000 MPa



CARBOFIX® Grid K 370/2.5x2.5

Carbon Fiber Textile Reinforcement

Description:
Technical **textile reinforcement** produced made of **carbon fiber yarn**, used in the reinforcement of historical buildings, with a special grid-shaped structure that increases adherence and bearing strength. It weighs 370 g/m^2, it can easily be shaped thanks to its soft yarn-like structure and gains a rigid structure with the epoxy resins it is used with.

Application Areas:
- Indoor and outdoor,
- Restoration and repair of historical monuments increasing the carrying capacity of vaults, walls and domes of historical buildings,
- Reinforcement of masonry walls,
- Increasing safety measures in excavation areas,
- Retrofitting of historical buildings in accordance with the original,
- Ground stabilization,
- Structural reinforcement of elements such as columns, beams and slabs.

Advantages:
- Suitable for historical building.
- Easy to apply, has a special adherence enhancing coating to work together with reinforcement mortars.
- Used for floor and surface stabilization.
- Flexible, provides resistance against tensile stresses.
- No corrosion problem compared to steel.
- Has very high chemical resistance.

Packaging:
Standard

Technical Properties	
Color	: Black
Fiber Type	: Carbon fiber yarn
Fiber Density	: 1.80 g/cm^3
Weight (TS EN 12127)	: 370 ± 5% g/m^2
Weight Ratio in 0° (Warp) Direction	: 50%
Weight Ratio in 90° (Weft) Direction	: 50%
Weaving Density	: 24K
Design	: 25 x 25 mm gap distance
Length	: Standard
Width (TS 3427 ISO 5025)	: 1000 mm ± 2.50%
Tensile Strength	: > 4900 MPa
Modulus of Elasticity	: ≥ 240000 MPa

CARBOFIX® Tassel Anchor

Carbon Fiber Based Anchor Structure Reinforcement Element

Description:
Structural reinforcement element made of **carbon acrylic fiber** and **thermoplastic** yarn in the form of **tassels**, used in the reinforcement of historical buildings, domes and reinforced concrete structures, which allows the meshes to work monolithically with the structure enhancing adherence and bearing strength.

Application Areas:
- Masonry, vaults and domes,
- Reinforcement of reinforced concrete structures against earthquakes with carbon fiber,
- Repair and reinforcement of columns, beams and slabs of light - medium damaged structures,
- Repair and reinforcement of deformed and damaged bridges, viaducts and overpasses,
- Renovation and reinforcement of masonry structures,
- Restoration and repair of historical monuments.

Advantages:
- Compatible with **CARBOFIX Tex** and **CARBOFIX Grid** products.
- Full adaptation to the masonry structure.
- High adherence and load carrying properties.
- Easy to apply, reduces laber costs.
- Flexible, provides resistance against shear stresses.
- No corrosion problem compared to steel.
- Easy to shape.
- Easy to apply with epoxy and hydraulic lime mortar.

Packaging:
Requested dimensions

Technical Properties	
Color	: Black
Fiber Type	: Carbon fiber
Design	: Adherence fiber ribbed rod
Length	: Variable
Diameter	: 6 / 8 / 10 / 12 mm
Fiber Length	: Variable
Elongation at Break	: 1.8%
Tensile Strength	: > 4000 MPa
Modulus of Elasticity	: > 240 GPa
Weaving Density	: 12K

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

CARBOFIX® Plate

Carbon Fiber Reinforcement Plate

Description:
Structural reinforcement product made of **carbon acrylic fiber** and **thermoplastic** yarn impregnated with epoxy resin and brought into **plate** form, used in the reinforcement of historical buildings, domes and reinforced concrete structures, enhancing adherence and bearing strength.

Application Areas:
- Indoor and outdoor,
- Reinforcing buildings against earthquakes,
- Repair and reinforcement of columns, beams and slabs of light - medium damaged structures,
- To increase the bearing capacity in slabs, beams and bridges,
- Reinforcement of structural elements against earthquakes in reinforced concrete structures together with carbon fiber fabric,
- Bridges, overpasses and viaducts with increased live load,
- Reduction of steel reinforcement stresses in deformed and deflected openings,
- Reinforcement of vaults and arches,
- Restoration and repair of historical monuments.

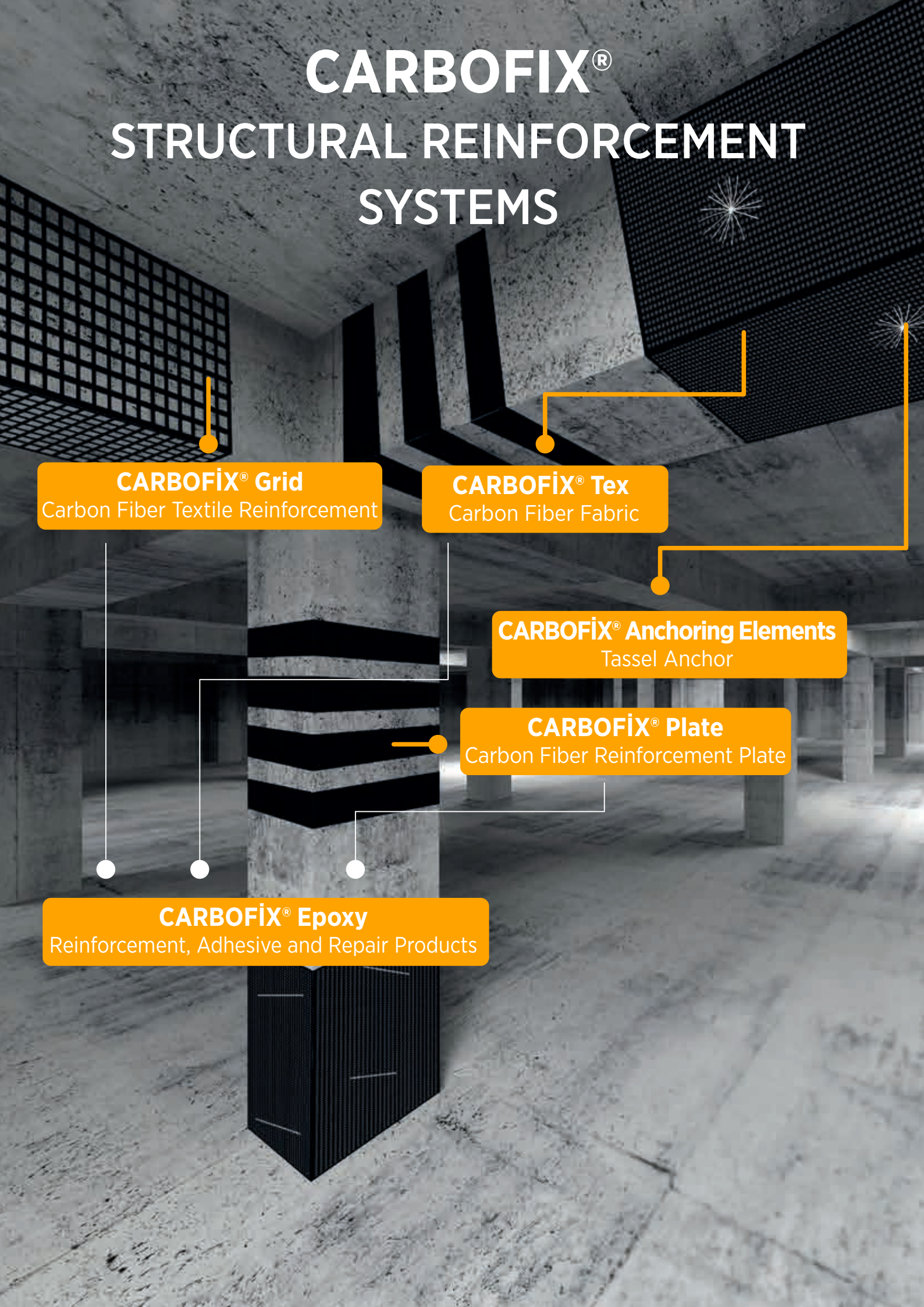
Advantages:
- Very high tensile strength and modulus of elasticity.
- Easy to transport and apply.
- Since it is light and thin, it does not impose a load on the structure and does not form a cross section.
- Can be cut to the required size with industrial scissors.
- No corrosion problem compared to steel.
- Very high chemical resistance.
- Excellent fatigue strength.

Packaging:
Standard

Technical Properties	
Color	: Black
Fiber Type	: Carbon fiber
Design	: In form of plate
Length	: Variable length
Product Width and Thickness	: Width: 50 mm Thickness: 1.2 mm Width: 50 mm Thickness: 1.4 mm Width: 100 mm Thickness: 1.2 mm Width: 100 mm Thickness: 1.4 mm
Fiber Length (Adherence)	: Variable
Elongation at Break	: < 1.7% (ASTM D3039)
Tensile Strength	: > 2400 MPa (ASTM D3039)
Modulus of Elasticity	: > 155 GPa (ASTM D3039)
Hardness	: 91.6 HRP
Water Absorption	: < 0.1%

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

CARBOFIX®
STRUCTURAL REINFORCEMENT SYSTEMS



CARBOFİX® Grid
Carbon Fiber Textile Reinforcement

CARBOFİX® Tex
Carbon Fiber Fabric

CARBOFİX® Anchoring Elements
Tassel Anchor

CARBOFİX® Plate
Carbon Fiber Reinforcement Plate

CARBOFİX® Epoxy
Reinforcement, Adhesive and Repair Products

FLOOR SYSTEMS

MONOFIX® 100

Quartz Aggregated Surface Hardener

Description:
Abrasion resistant powder **surface hardener** consisting of a mixture of special type cement, high quality **quartz** aggregate and performance-enhancing chemical additives, applied monolithically on fresh concrete surfaces. It provides wear, impact, dust and abrasion resistance **against light** and **medium loads** on concrete surfaces.

Application Areas:
- Indoor and outdoor,
- Factories, business centers,
- Garages, parking lots and basement floors,
- Hangars and mechanical workshops,
- Loading and unloading areas,
- Subway stations and underground passages,
- Parks and gardens, pedestrian ways and pavements.

Advantages:
- Applied on fresh concrete monolithically.
- The abrasion resistance of the MONOFIX 100 applied concrete surface increases 2 - 4 times compared to the normal concrete.
- Becomes part of the surface where it is applied, does not wear and fall off.
- Economical and long lasting.
- Ready to use. Saves considerable time as it is quick and easy to apply.
- Provides resistance to wearing and impacts on concrete surfaces and grout sides.
- Makes the surface resistant to weather conditions and freeze-thaw cycles.
- The surface is easier to clean and more resistant to oils than normal concrete.
- Does not oxidize.
- Provides a higher impermeability compared to normal concrete.
- Has 3 different color alternatives.

Consumption:
Light and medium loads: 4 - 5 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey, red, green colored powder
Application Temperature	: Between +5°C and +35°C
Aggregate Hardness	: 7 Mohs Scale
Wear Resistance to Rolling Wheel	: ≤ 1 cm^3 (TS EN 13892-5)
Compressive Strength	: ≥ 70 N/mm^2 28 Days (TS EN 13892-2)
Flexural Strength	: ≥ 10 N/mm^2 28 Days (TS EN 13892-2)

MONOFIX® 200

Mineral and Corundum Aggregated Surface Hardener

Description:
Abrasion resistant powder **surface hardener** consisting of a mixture of special type cement, high quality **mineral** and **corundum** aggregate and performance-enhancing chemical additives, applied monolithically on fresh concrete surfaces. It provides wear, impact, dust and abrasion resistance **against light**, **medium** and **heavy loads** on concrete surfaces.

Application Areas:
- Indoor and outdoor,
- Factories, business centers, commercial storages,
- Garages, parking lots and basement floors,
- Mechanical workshops,
- Power stations,
- Shipyards and loading docks,
- Subway stations and underground passages,
- Parks and gardens, pedestrian ways and pavements,
- Heliports and airfields.

Advantages:
- Applied on fresh concrete monolithically.
- The abrasion resistance of the MONOFIX 200 applied concrete surface increases 3 - 5 times compared to the normal concrete.
- Becomes part of the surface where it is applied, does not wear and fall off.
- Economical and long lasting.
- Ready to use. Saves considerable time as it is quick and easy to apply.
- Provides resistance to wearing and impacts on concrete surfaces and grout sides.
- Makes the surface resistant to weather conditions and freeze-thaw cycles.
- The surface is easier to clean and more resistant to oils than normal concrete.
- Does not oxidize.
- Provides a higher impermeability compared to normal concrete.
- Has 3 different color alternatives.

Consumption:
Light and medium loads: 5 - 5.5 kg/m^2
Heavy loads: 7 - 8 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey, red, green colored powder
Application Temperature	: Between +5°C and +35°C
Aggregate Hardness	: 8 Mohs Scale
Wear Resistance to Rolling Wheel	: ≤ 1 cm^3 (TS EN 13892-5)
Compressive Strength	: ≥ 70 N/mm^2 28 Days (TS EN 13892-2)
Flexural Strength	: ≥ 10 N/mm^2 28 Days (TS EN 13892-2)

MONOFIX® 300

Corundum Aggregated Surface Hardener

Description:
Abrasion resistant powder **surface hardener** consisting of a mixture of special type cement, high quality **corundum** aggregate and performance-enhancing chemical additives, applied monolithically on fresh concrete surfaces. It provides wear, impact, dust and abrasion resistance **against light**, **medium** and **heavy loads** on concrete surfaces.

Application Areas:
- Indoor and outdoor,
- Factories, business centers, commercial storages,
- Garages, parking lots and basement floors,
- Mechanical workshops,
- Power stations,
- Shipyards and loading docks,
- Subway stations and underground passages,
- Parks and gardens, pedestrian ways and pavements,
- Heliports and airfields.

Advantages:
- Applied on fresh concrete monolithically.
- The abrasion resistance of the MONOFIX 300 applied concrete surface increases 4 - 6 times compared to the normal concrete.
- Becomes part of the surface where it is applied, does not wear and fall off.
- Economical and long lasting.
- Ready to use. Saves considerable time as it is quick and easy to apply.
- Provides resistance to wearing and impacts on concrete surfaces and grout sides.
- Makes the surface resistant to weather conditions and freeze-thaw cycles.
- The surface is easier to clean and more resistant to oils than normal concrete.
- Does not oxidize.
- Provides a higher impermeability compared to normal concrete.
- Has 3 different color alternatives.

Consumption:
Light and medium loads: 5 - 6 kg/m^2
Heavy loads: 7 - 9 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey, red, green colored powder
Application Temperature	: Between +5°C and +35°C
Aggregate Hardness	: 9 Mohs Scale
Wear Resistance to Rolling Wheel	: ≤ 1 cm^3 (TS EN 13892-5)
Compressive Strength	: ≥ 80 N/mm^2 28 Days (TS EN 13892-2)
Flexural Strength	: ≥ 10 N/mm^2 28 Days (TS EN 13892-2)

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

MONOFIX® LIQUID

Dusting and Abrasion Preventive Liquid Surface Hardener

Description:
Low viscosity, colorless **liquid surface hardener** that protects the surface from dusting and abrasion. Increases the resistance of the surface against water. Enhances chemical and mechanical resistance.

Application Areas:
- Indoor and outdoor,
- All horizontal and vertical surfaces,
- Concrete slabs, cement based screeds, tile and stone covered floors that are required to be hardened and dust free,
- Natural stones and pressed brick covered floors,
- Factories, industrial fields and mechanical workshops,
- Storages and garages,
- Basement floors and pedestrian ways.

Advantages:
- Increases the resistance of concrete and cement based floors against dusting and abrasion.
- Can be applied on new and old surfaces and prevents dusting.
- Can be applied under elevated slabs.
- Decelerates water loss and helps curing fresh concrete.
- Provides superior resistance against freze-thaw cycle.
- Increases resistance against water.
- Provides permanent and effective durability.
- Easy to apply and ready to use.
- Waterborne and environmentally friendly.
- Increases concrete's resistance to atmospheric gases.

Consumption:
Approximately 200 - 250 g/m^2 on each layer (Varies depending on the absorption and the porosity of the concrete surface.)

Packaging:
30 kg plastic jerrycans and 180 kg barrels

Technical Properties	
Appearance	: Transparent liquid
Liquid Density	: ~ 1.10 kg/L (20°C)

MONOPRIMER®

Primer for Floor

Description:
Acrylic based, ready-to-use, single component **primer**, used on absorbent surfaces and on surfaces that are likely to dust.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Highly absorbent surfaces,
- Increase adherence and prevent dusting, prior to applications of floor materials such as leveling screed,
- As a primer prior to ceramics application,
- For increasing adherence before ceiling plastering applications,
- For increasing adherence against dusting on concrete surfaces that will be exposed to pedestrian traffic.

Advantages:
- Waterborne, odorless and safe to use indoor.
- Provides high adherence and prevents dusting.
- Prevents **fast water loss** and potential air bubbles formation on absorbent surfaces when applied before cement and gypsum based coatings.
- Increases workability.
- Provides resistance against moisture.
- Suitable for use on floor heating systems.
- Suitable for use on ceilings and vertical surfaces.

Consumption:
100 - 200 g/m^2 (Varies depending on the absorption and the roughness of the concrete surface.)

Packaging:
5 kg and 20 kg plastic jerrycans

Technical Properties	
Appearance	: White colored liquid
Liquid Density	: ~ 1.05 kg/L
Application Temperature	: Between +5°C and +35°C
Drying Time	: 45 - 60 minutes
Second Coat Application Time	: 1 - 1.5 hours
Service Temperature	: Between -30°C and +80°C

MONOFLOOR® 100 - C35

Ready to Use Self-Levelling Compound (2 - 10 mm)

Description:
C35 class, **cement** based **self-levelling floor compound** which can be applied up to 10 mm thickness, to eliminate defects and roughnesses on the surface.

Application Areas:
- Indoor and dry environments,
- Residential buildings,
- Hospitals,
- Education facilities,
- Shopping malls, stores and markets,
- Levelling the surface in 2 - 10 mm thickness before laying ceramics, granites, marble, wood, parquet, laminate, carpet, linoleum and PVC coatings.

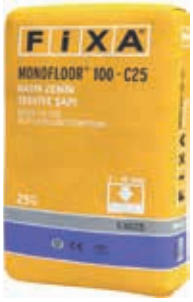
Advantages:
- Applied in 2 - 10 mm thickness.
- Applied quickly and easily.
- Balances by self-levelling and removes the roughness of under layer.
- Provides a homogeneous appearance on the surface.
- Has high adhesion to the surface.
- Does not dust on the surface.
- Suitable for floors with heating systems.
- Can be applied on old concrete surfaces.

Consumption:
1.6 - 1.8 kg/m^2 (for 1 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.25 kg/L
Water Mixing Ratio	: 5.5 - 6 L water / 25 kg powder
Pot Life	: 25 - 30 minutes
Walk-on Time	: 10 hours
Wear Resistance to Rolling Wheel	: ≤ 1 cm^3 28 days (EN 13892-5)
Compressive Strength	: ≥ 35 N/mm^2 28 days (EN 13892-2)
Flexural Strength	: ≥ 7 N/mm^2 28 days (EN 13892-2)
Application Temperature	: Between +5°C and +35°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.



MONOFLOOR® 100 - C25

Ready to Use Self-Levelling Compound (2 - 10 mm)

Description:
C25 class, **cement** based **self-levelling floor compound** which can be applied up to 10 mm thickness, to eliminate defects and roughnesses on the surface.

Application Areas:
- Indoor and dry environments,
- Residential buildings,
- Hospitals,
- Education facilities,
- Shopping malls, stores and markets,
- Levelling the surface in 2 - 10 mm thickness before laying ceramics, granites, marble, wood, parquet, laminate, carpet, linoleum and PVC coatings.

Advantages:
- Applied in 2 - 10 mm thickness.
- Applied quickly and easily.
- Balances by self-levelling and removes the roughness of under layer.
- Provides a homogeneous appearance on the surface.
- Has high adhesion to the surface.
- Suitable for floors with heating systems.
- Can be applied on old concrete surfaces.

Consumption:
1.6 - 1.8 kg/m^2 (for 1 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.25 kg/L
Water Mixing Ratio	: 6 L water / 25 kg powder
Pot Life	: 20 - 25 minutes
Walk-on Time	: ~ 24 hours
Wear Resistance to Rolling Wheel	: ≤ 1 cm^3 28 days (EN 13892-5)
Compressive Strength	: ≥ 25 N/mm^2 28 days (EN 13892-2)
Flexural Strength	: ≥ 7 N/mm^2 28 days (EN 13892-2)
Application Temperature	: Between +5°C and +35°C

MONOFLOOR® 100 - C25E

Ready to Use Self-Levelling Compound (2 - 10 mm)

Description:
C25 class, **cement** based **self-levelling floor compound** which can be applied up to 10 mm thickness, to eliminate defects and roughnesses on the surface.

Application Areas:
- Indoor and dry environments,
- Residential buildings,
- Hospitals,
- Education facilities,
- Shopping malls, stores and markets,
- Levelling the surface in 2 - 10 mm thickness before laying ceramics, granites, marble, wood, parquet, laminate, carpet, linoleum and PVC coatings.

Advantages:
- Applied in 2 - 10 mm thickness.
- Applied quickly and easily.
- Balances by self-levelling and removes the roughness of under layer.
- Provides a homogeneous appearance on the surface.
- Has high adhesion to the surface.
- Suitable for floors with heating systems.
- Can be applied on old concrete surfaces.
- Economical.

Consumption:
1.6 - 1.8 kg/m^2 (for 1 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.20 kg/L
Water Mixing Ratio	: 6 L water / 25 kg powder
Pot Life	: ~ 20 minutes
Walk-on Time	: ~ 48 hours
Wear Resistance to Rolling Wheel	: ≤ 1 cm^3 28 days (EN 13892-5)
Compressive Strength	: ≥ 25 N/mm^2 28 days (EN 13892-2)
Flexural Strength	: ≥ 7 N/mm^2 28 days (EN 13892-2)
Application Temperature	: Between +5°C and +35°C

MAXIFLOOR®

Gypsum Based Ready-Mixed Floor Mortar

Description:
Gypsum (calcium sulphate) based **floor mortar** that dries quickly and allows **thick application (2 - 10 cm)**, used for the purpose of eliminating and correcting surface defects on slab concrete.

Application Areas:
- Indoor and in dry environments,
- Residential buildings,
- Hospitals,
- Education facilities,
- Shopping malls, stores and markets,
- On slab concrete,
- Floors with heating systems,
- Levelling the surface 2 - 10 cm before laying ceramics, granites, marble, natural stone, hardwood, parquet, laminate, epoxy, carpet, linoleum and PVC coatings.

Advantages:
- Allows thick application.
- Applied faster and easier than mortars with cement. Does not cause shrinkage cracks.
- Can be walked on 2 hours after the application.
- Economical.
- Can be applied with machine.
- Can be applied on old concrete floors.
- Balanced by self-levelling and covers the roughness of under layer.
- Suitable for floors with heating systems.
- Causes less carbon emission compared to cement based screeds.

Consumption:
16 - 17 kg/m^2 (for 1 cm thickness)

Packaging:
35 kg kraft bags

Technical Properties	
Appearance	: Off white colored fine powder
Powder Density	: ~ 1.30 kg/L
Dry Bulk Density of Hardened Mortar	: 1.75 ± 0.1 kg/L
Water Mixing Ratio	: ~ 8.5 L water / 35 kg powder
Pot Life	: 20 - 30 minutes
Initial Setting Time	: ≥ 20 minutes
Final Setting Time	: ≥ 90 minutes
Walk-on Time	: 2 hours
Top Coat Time	: After fully dried
Application Thickness	: 2 - 10 cm
Compressive Strength	: ≥ 16 N/mm^2 28 days C16 (EN 13813)
Flexural Strength	: ≥ 5 N/mm^2 28 days F5 (EN 13813)
Reaction to Fire	: A1 (TS EN 13501-1)
pH	: ≥ 7
Application Temperature	: Between +5°C and +35°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

TOPFLOOR®

Gypsum Based Self-Levelling Compound (2 - 10 mm)

Description:
Gypsum (calcium sulphate) based **self-levelling compound** applied 2 - 10 mm, used for the purpose of eliminating and smoothing surface defects on slab concrete.

Application Areas:
- Indoor and in dry environments,
- Residential buildings,
- Hospitals,
- Education facilities,
- Shopping malls, stores and markets,
- On slab concrete floors or floors coated with **MAXIFLOOR**,
- Floors with heating systems,
- Levelling the surface in 2 - 10 mm before laying ceramics, granites, marble, hardwood, parquet, laminate, epoxy, carpet, PVC and linoleum coatings.

Advantages:
- Applied up to a minumum thickness of 2 mm.
- Applied faster and easier than mortars with cement. Does not cause shrinkage cracks.
- Has high flexural and compressive strength.
- Can be walked on 2 hours after the application.
- Can be applied with machine.
- Can be applied on old cement or gypsum based floors.
- Balanced by self-levelling and covers the roughness of under layer.
- Makes the surface firm and resistant to abrasion when cured.
- Suitable for floors with heating systems.
- Causes less carbon emission compared to cement based screeds.

Consumption:
1.5 - 1.6 kg/m² (for 1 mm thickness)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.10 kg/L
Dry Bulk Density of Hardened Mortar	: 1.70 ± 0.1 kg/L
Water Mixing Ratio	: 6 L water / 25 kg powder
Pot Life	: ~ 20 minutes
Initial Setting Time	: ≥ 20 minutes
Final Setting Time	: ≥ 90 minutes
Walk-on Time	: 2 hours
Top Coat Time	: After fully dried
Application Thickness	: 2 - 10 mm
Compressive Strength	: ≥ 25 N/mm² 28 days C25 (EN 13813)
Flexural Strength	: ≥ 7 N/mm² 28 days F7 (EN 13813)
Reaction to Fire	: A1 (TS EN 13501-1)
pH	: ≥ 7
Application Temperature	: Between +5°C and +35°C

FLOORFIX® Rapid 10

Acrylic Based High Performance PVC Floor Coating Adhesive

Description:
Acrylic based, solvent-free, single component, multi-purpose dispersion floor coating adhesive for bonding of PVC and linoleum floor coatings to pre-leveled surfaces, **adheres fast** and **strongly**.

Application Areas:
- Indoor and in dry environments,
- Horizontal surfaces,
- Residential buildings,
- Hospitals,
- Educational facilities,
- Shopping malls, stores and markets,
- Bonding of homogenious and heterogenious PVC floor coatings,
- Bonding of linoleum based floor coatings,
- Bonding of rubber-based roll coatings,
- Bonding of PVC, foam, latex-based carpets, acoustic vinyl and textile insulation mats to leveled surfaces.

Advantages:
- Does not contain **solvent**.
- Can safely be used indoor as it is waterborne.
- Easy to spread and apply.
- Dries fast.
- Covers wider area in a short time.
- Can be applied on gypsum-based levelling compounds as well as cement based leveling compounds.
- Adheres well on the surface, provides excellent adhesion in a short time in the bonding of coating types that are difficult to adhere to.
- Can be used as a multi-purpose adhesive.
- Suitable for floor heating systems.
- Resistant to wheeled furniture.

Consumption:
250 - 350 g/m² (Varies depending on the type of comb used, application thickness, absorbency and smoothness of the floor, type of coating material and ambient conditions.)

Packaging:
20 kg plastic buckets

Technical Properties	
Appearance	: Grey colored flowable dispersion
Density	: 1.35 ± 0.05 kg/L
Gumming Time	: 10 - 15 minutes
Open Working Time	: 15 - 30 minutes
Time to Opening to Traffic	: 24 - 48 hours
Complete Curing Time	: 3 - 4 days
Application Temperature	: Between +15°C and +30°C
Service Temperature	: Between +5°C and +70°C

FLOORFIX® Flex 30

Acrylic Based Flexible PVC Floor Coating Adhesive

Description:
Acrylic based, solvent-free, single component, **flexible** dispersion floor coating adhesive for bonding of PVC and linoleum floor coatings to pre-leveled surfaces.

Application Areas:
- Indoor and in dry environments,
- Horizontal surfaces,
- Residential buildings,
- Hospitals,
- Educational facilities,
- Shopping malls, stores and markets,
- Bonding of homogenious and heterogenious PVC floor coatings,
- Bonding of linoleum based floor coatings,
- Bonding of rubber-based roll coatings.

Advantages:
- Does not contain **solvent**.
- Can safely be used indoor as it is waterborne.
- Easy to spread and apply.
- Offers long workability.
- Allows to correct errors that occur while the coating is placed thanks to its flexibility and re-adhesive ability.
- Can be applied on gypsum-based levelling compounds as well as cement based leveling compounds.
- Adheres well on the surface. Provides high adhesion strength.
- Suitable for floor heating systems.
- Resistant to wheeled furniture.

Consumption:
250 - 350 g/m² (Varies depending on the type of comb used, application thickness, absorbency and smoothness of the floor, type of coating material and ambient conditions.)

Packaging:
20 kg plastic buckets

Technical Properties	
Appearance	: Grey colored flowable dispersion
Density	: 1.35 ± 0.05 kg/L
Gumming Time	: 25 - 35 minutes
Open Working Time	: 35 - 45 minutes
Time to Opening to Traffic	: 24 - 48 hours
Complete Curing Time	: 3 - 4 days
Application Temperature	: Between +15°C and +30°C
Service Temperature	: Between +5°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

FLOORFIX® Tacky 25

Acrylic Based Flexible PVC Floor Coating Adhesive

Description:
Acrylic based, solvent-free, single component, **flexible** dispersion floor coating adhesive with **improved stickiness** for bonding of PVC and linoleum floor coatings to pre-leveled surfaces. Offers **long workability**.

Application Areas:
- Indoor and in dry environments,
- Horizontal surfaces,
- Residential buildings,
- Hospitals,
- Educational facilities,
- Shopping malls, stores and markets,
- Bonding of homogenious and heterogenious PVC floor coatings,
- Bonding of linoleum based floor coatings,
- Bonding rubber-based roll coatings.

Advantages:
- Does not contain **solvent**.
- Can safely be used indoor as it is waterborne.
- Easy to spread and apply.
- Has long workability, protects its bonding properties for long time.
- Allows to correct errors that occur while the coating is placed thanks to flexibility and re-adhesive ability.
- Remains sticky even the next day.
- Can be applied on gypsum-based levelling compounds as well as cement based leveling compounds.
- Adheres well on the surface. Provides high adhesion strength.
- Suitable for floor heating systems.
- Resistant to wheeled furniture.

Consumption:
250 - 350 g/m^2 (Varies depending on the type of comb used, application thickness, absorbency and smoothness of the floor, type of coating material and ambient conditions.)

Packaging:
20 kg plastic buckets

Technical Properties	
Appearance	: Grey colored flowable dispersion
Density	: 1.35 ± 0.05 kg/L
Gumming Time	: 25 - 30 minutes
Open Working Time	: 40 - 60 minutes
Time to Opening to Traffic	: 24 - 48 hours
Complete Curing Time	: 3 - 4 days
Application Temperature	: Between +15°C and +30°C
Service Temperature	: Between +5°C and +70°C

FLOORFIX® Eco 20

Acrylic Based PVC Floor Coating Adhesive

Description:
Acrylic based, solvent-free, single component, dispersion floor coating adhesive for bonding of PVC and linoleum floor coatings to pre-leveled surfaces.

Application Areas:
- Indoor and in dry environments,
- Horizontal surfaces,
- Residential buildings,
- Hospitals,
- Educational facilities,
- Shopping malls, stores and markets,
- Bonding of homogenious and heterogenious PVC floor coatings,
- Bonding of linoleum based floor coatings,
- Bonding of rubber-based roll coatings.

Advantages:
- Does not contain **solvent**.
- Can safely be used indoor as it is waterborne.
- Easy to spread and apply.
- Odorless.
- Offers long workability.
- Can be applied on gypsum-based levelling compounds as well as cement based leveling compounds.
- Adheres well on the surface.
- Suitable for floor heating systems.
- Resistant to wheeled furniture.
- Economical.

Consumption:
250 - 350 g/m^2 (Varies depending on the type of comb used, application thickness, absorbency and smoothness of the floor, type of coating material and ambient conditions.)

Packaging:
20 kg plastic buckets

Technical Properties	
Appearance	: Grey colored flowable dispersion
Density	: 1.35 ± 0.05 kg/L
Gumming Time	: 20 - 25 minutes
Open Working Time	: 25 - 35 minutes
Time to Opening to Traffic	: 24 - 48 hours
Complete Curing Time	: 3 - 4 days
Application Temperature	: Between +15°C and +30°C
Service Temperature	: Between +5°C and +70°C

REPOX® A

Solvent-Free Epoxy Surface Primer

Description:
Epoxy resin based, double component, **solvent-free**, epoxy **surface primer** with film-forming properties for concrete and cement based mineral surfaces. It can be used for penetration and priming purposes prior to applying epoxy and polyurethane based floor coatings and paint materials.

Application Areas:
- Indoor and outdoor,
- As a primer under the coatings in hygienic environments such as hospitals and laboratories, in food, medicine, paint industries, printing houses, industrial kitchens, airplane maintenance hangars, factories, places where heavy forklift trucks are used, water treatment facilities, places exposed to chemical corrosion, warehouses, terminals, shopping malls, schools and indoor parking lots,
- As filler and repair mortar when mixed with appropriate aggregate,
- As a primer under **REPOX** epoxy based and **POLAN** polyurethane based floor coatings.

Advantages:
- Penetrates deeply and fills the capillary voids on the concrete surface. Provides perfect penetration and adherence.
- Functions as a bonding bridge for epoxy and polyurethane coatings, paints and repair mortars which will be applied on it.
- Resistant to chemicals and inorganic acids, has high mechanical strength. Does not contain **solvent**.

Consumption:
150 - 400 g/m^2 (for 140 - 370 µ thickness) According to system solutions, the method of primer application and its consumption vary depending on the surface's absorption, roughness and application method.

Packaging:
Sets of 7 kg and 20 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Component A (Resin): Liquid - transparent : Component B (Hardener): Liquid - yellow	
Packaging (7 kg)	: Comp. A: 4.76 kg, Comp. B: 2.24 kg	
Packaging (20 kg)	: Comp. A: 13.60 kg, Comp. B: 6.40 kg	
Solid Content	: 100% by wt., 100% by vol. (EN ISO 3251)	
Mixture Density	: 1.08 ± 0.03 g/cm^3 (TS EN ISO 2811-2)	
Mixture Viscosity	: 350 ± 70 mPas (TS EN ISO 3219-2)	
Application Temperature	: Between +10°C and 30°C	
Hardness (Shore D)	: 75 ± 3 (TS EN ISO 868) 7 days	
Compressive Strength	: ≥ 65 N/mm^2 (TS EN 12190) 7 days	
Flexural Strength	: ≥ 35 N/mm^2 (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 2 N/mm^2 - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (20 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	60 minutes
	20°C	30 minutes
	30°C	20 minutes
Tack-Free Time	: 6 - 7 hours (23°C TS 4317)	
Recoating Time	: 12 - 24 hours (23°C TS 4317)	
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

REPOX® AD

Solvent-Free Epoxy Primer with Filler

Description:
Epoxy resin based, double component, **solvent-free**, epoxy **floor primer** with **filler** for concrete and cement based mineral surfaces.

Application Areas:
- Indoor and outdoor,
- As a primer under the coatings in hygienic environments such as hospitals and laboratories, in food, medicine, paint industries, printing houses, industrial kitchens, airplane maintenance hangars, factories, places where heavy forklift trucks are used, water treatment facilities, places exposed to chemical corrosion, warehouses, terminals, shopping malls, schools and indoor parking lots,
- As a mid-coat with the addition of aggregate,
- As filler and repair mortar when mixed with appropriate aggregate,
- As a primer under **REPOX** epoxy based and **POLAN** polyurethane based floor coatings.

Advantages:
- Easy to apply in construction site at it has fillers. Adheres perfectly on cement based surfaces.
- Functions as a bonding bridge for epoxy and polyurethane coatings, paints and repair mortars which will be applied on it.
- Resistant to chemicals and inorganic acids, has high mechanical strength. Does not contain **solvent**.

Consumption:
250 - 500 g/m^2 (for 185 - 370 µ thickness) According to system solutions, the method of primer application and its consumption vary depending on the surface's absorption, roughness and application method.

Packaging:
Sets of 25 kg (A+B) tin buckets

Technical Properties	
Appearance - Color	: Component A (Resin): Liquid - brown Component B (Hardener): Liquid - yellow
Packaging	: Comp. A: 20.16 kg, Comp. B: 4.84 kg
Mixture Density	: 1.35 ± 0.04 kg/cm^3 (TS EN ISO 2811-2)
Mixture Viscosity	: 600 ± 120 mPas (TS EN ISO 3219-2)
Application Temperature	: Between +10°C and +30°C
Hardness (Shore D)	: 75 ± 3 (TS EN ISO 868) 7 days
Compressive Strength	: ≥ 50 N/mm^2 (TS EN 12190) 7 days
Flexural Strength	: ≥ 20 N/mm^2 (TS EN 12190) 7 days
Adhesion Strength	: ≥ 2 N/mm^2- Fracture within the concrete substrate (TS EN 1542) 7 days
Pot Life (25 kg)	: Temperature / Duration (TS EN ISO 9514) 10°C / 60 minutes 20°C / 30 minutes 30°C / 20 minutes
Tack-Free Time	: 5 - 6 hours (23°C TS 4317)
Recoating Time	: 12 - 24 hours (23°C TS 4317)
Complete Curing Time	: 7 days (23°C TS 4317)
Service Temperature	: Between -10°C and +60°C

REPOX® AH

Solvent-Free Moisture Tolerant Epoxy Surface Primer

Description:
Epoxy resin based, double component, **solvent-free**, low viscosity, **moisture tolerant epoxy surface primer** for concrete and cement based mineral surfaces.

Application Areas:
- Indoor and outdoor,
- Protects the coatings applied on top from water evaporation coming from the substrate and can be applied on damp surfaces,
- As a primer under the coatings in hygienic environments such as hospitals and laboratories, in food, medicine, paint industries, printing houses, industrial kitchens, airplane maintenance hangars, factories, places where heavy forklift trucks are used, water treatment facilities, places exposed to chemical corrosion, warehouses, terminals, shopping malls, schools and indoor parking lots,
- As a primer under **REPOX** epoxy based and **POLAN** polyurethane based floor coatings.

Advantages:
- Adheres perfectly on cement based **moist surfaces** and functions as a bonding bridge for epoxy coatings and paints which will be applied on it.
- Penetrates deeply and fills the capillary voids on the concrete surfaces, forms a vapor-impermeable layer.
- Resistant to chemicals and inorganic acids, has high mechanical strength. Does not contain **solvent**.

Consumption:
150 - 400 g/m^2 (for 140 - 370 µ thickness) According to system solutions, the method of primer application and its consumption vary depending on the surface's absorption, roughness and application method.

Packaging:
Sets of 20 kg (A+B) tin buckets

Technical Properties	
Appearance - Color	: Component A (Resin): Liquid - transparent Component B (Hardener): Liquid - brown
Packaging	: Comp. A: 12.82 kg, Comp. B: 7.18 kg
Solid Content	: 100% by wt., 100% by vol. (EN ISO 3251)
Mixture Density	: 1.05 ± 0.03 g/cm^3 (TS EN ISO 2811-2)
Mixture Viscosity	: 550 ± 110 mPas (TS EN ISO 3219-2)
Application Temperature	: Between +10°C and +30°C
Hardness (Shore D)	: 70 ± 3 (TS EN ISO 868) 7 days
Compressive Strength	: ≥ 55 N/mm^2 (TS EN 12190) 7 days
Flexural Strength	: ≥ 45 N/mm^2 (TS EN 12190) 7 days
Adhesion Strength	: ≥ 2 N/mm^2 - Fracture within the concrete substrate (TS EN 1542) 7 days
Pot Life (20 kg)	: Temperature / Duration (TS EN ISO 9514) 10°C / 70 minutes 20°C / 35 minutes 30°C / 20 minutes
Tack-Free Time	: 5 - 6 hours (23°C TS 4317)
Recoating Time	: 12 - 24 hours (23°C TS 4317)
Complete Curing Time	: 7 days (23°C TS 4317)
Application Temperature	: Between -10°C and +60°C

REPOX® CAP

Solvent-Free Epoxy Ceramic Bonding Primer

Description:
Epoxy resin based, double component, **solvent-free**, non-absorbent **ceramic bonding** primer which contains silica sand. Used on ceramics and functions as a bonding bridge for epoxy and polyurethane coatings or paints which will be applied on it.

Application Areas:
- Indoor and outdoor,
- As a bonding primer under the epoxy coatings in places with ceramic surfaces like hygienic environments such as hospitals and laboratories, in food, medicine, paint industries, industrial kitchens, factories, warehouses, terminals, shopping malls, schools.

Advantages:
- Does not contain solvent.
- Adheres perfectly on glazed surfaces such as ceramic and tiles.
- Functions as a bonding bridge for epoxy, polyurethane coatings and paints which will be applied on it.
- Resistant to chemicals and inorganic acids, has high mechanical strength.

Consumption:
50 - 100 g/m^2 (for 50 - 100 µ thickness) According to system solutions, the method of primer application and its consumption vary depending on the surface's absorption, roughness and application method.

Packaging:
Sets of 20 kg (A+B) tin buckets

Technical Properties	
Appearance - Color	: Component A (Resin): Liquid - transparent Component B (Hardener): Liquid - light yellow
Packaging	: Component A: 14 kg, Component B: 6 kg
Mixture Density	: 1.08 ± 0.05 g/cm^3 (TS EN ISO 2811-2)
Mixture Viscosity	: 450 ± 150 mPas (TS EN ISO 3219-2)
Application Temperature	: Between +10°C and +30°C
Hardness (Shore D)	: 75 ± 3 (TS EN ISO 868) 7 days
Pot Life (20 kg)	: Temperature / Duration (TS EN ISO 9514) 10°C / 90 minutes 20°C / 50 minutes 30°C / 30 minutes
Tack-Free Time	: 8 - 10 hours (23°C TS 4317)
Recoating Time	: (Solvent-free coatings) max. 24 hours (23°C TS 4317) (Solvent containing coatings) 36 hours (23°C TS 4317)
Complete Curing Time	: 7 days (23°C TS 4317)
Service Temperature	: Between -10°C and +60°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

REPOX® AW

Waterborne Epoxy Surface Primer

Description:
Epoxy resin based, double component, **waterborne epoxy surface primer** for concrete and cement based mineral surfaces.

Application Areas:
- Indoor, floors and walls,
- As a primer under the coatings in hygienic environments such as hospitals (especially operation room walls) and laboratories, in food and chemical industries, water tanks, terminals, shopping malls, schools, tunnels and indoor parking lots,
- As a primer under **REPOX** epoxy based and **POLAN** polyurethane based floor coatings.

Advantages:
- Waterborne, odorless.
- Does not contain **solvent** and harmful chemicals.
- Adheres and penetrates perfectly on cement based surfaces and prevents dusting.
- Functions as a bonding bridge for epoxy, polyurethane coatings and paints which will be applied on it.
- Can be diluted with water.
- Has high mechanical strength.

Consumption:
100 - 200 g/m² (for 90 - 180 µ thickness) According to system solutions, the method of primer application and its consumption vary depending on the surface's absorption, roughness and application method.

Packaging:
Sets of 20 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Component A (Resin): Liquid - transparent Component B (Hardener): Liquid - transparent	
Packaging	: Component A: 7 kg, Component B: 13 kg	
Mixture Density	: 1.12 ± 0.05 g/cm³ (TS EN ISO 2811-2)	
Mixture Viscosity	: 600 ± 200 mPas (TS EN ISO 3219-2)	
Application Temperature	: Between +10°C and +30°C	
Adhesion Strength	: ≥ 2 N/mm² - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (20 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	150 minutes
	20°C	80 minutes
	30°C	40 minutes
Tack-Free Time	: 18 - 20 hours (23°C TS 4317)	
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

REPOX® AC

Solvent-Free, Colored Epoxy Mid-Coat for Floors

Description:
Epoxy resin based, double component, **solvent-free**, colored, **mid-coat** material developed to use under final floor coatings.

Application Areas:
- Indoor, horizontal applications,
- Hygienic environments such as hospitals and laboratories,
- Medicine, paint, paper and food industries,
- Laundries, industrial kitchens and cafeterias,
- Places exposed to heavy pedestrian traffic, such as shopping malls, shops, terminals, exhibition halls,
- Places exposed to heavy vehicle traffic, such as factories, warehouses, indoor parking lots, aircraft hangars,
- Offices and workplaces,
- As a mid-coat layer under **REPOX** epoxy based and **POLAN** polyurethane based floor coatings.

Advantages:
- Allows achieving the desired thickness before applying the topcoat.
- Ensures color consistency in case of wear, as it has the same color as the topcoat epoxy and polyurethane coatings and paints.
- Resistant to many chemicals and inorganic acids.
- Has high mechanical strength. Does not contain **solvent**.
- Can be filled with silica or quartz aggregates.

Consumption:
500 - 700 g/m² (for 320 - 450 µ thickness) According to system solutions, the method of primer application and its consumption vary depending on the surface's absorption, roughness and application method.

Packaging:
Sets of 25 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Comp. A (Resin): Liquid - RAL K7 colors* Comp. B (Hardener): Liquid - yellow	
Packaging	: Comp. A: 21.37 kg, Comp. B: 3.63 kg	
Mixture Density	: 1.55 ± 0.05 g/cm³ (TS EN ISO 2811-2)	
Mixture Viscosity	: 2000 ± 400 mPas (TS EN ISO 3219-2)**	
Application Temperature	: Between +10°C and +30°C	
Hardness (Shore D)	: 80 ± 3 (TS EN ISO 868) 7 days	
Compressive Strength	: ≥ 55 N/mm² (TS EN 12190) 7 days	
Flexural Strength	: ≥ 30 N/mm² (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 2 N/mm² - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (25 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	70 minutes
	20°C	35 minutes
	30°C	20 minutes
Tack-Free Time	: 7 - 8 hours (23°C TS 4317)	
Recoating Time	: 12 - 24 hours (23°C TS 4317)	
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

* Standard RAL K7 colors (excluding metallic, fluorescent colors and colors starting with 4000)
** Test results are based on RAL 7035. Viscosity may vary in different colors.

REPOX® 510

Solvent-Free Self-Levelling Epoxy Floor Coating

Description:
Epoxy resin based, double component, **solvent-free**, colored, **self-levelling floor coating** material with high chemical and mechanical resistance and finishes with a **flat surface**.

Application Areas:
- Indoor, horizontal applications,
- Hygienic environments such as hospitals and laboratories,
- Pharmaceutical, paint, paper and food industries,
- Laundries, industrial kitchens and cafeterias,
- Places exposed to heavy pedestrian traffic, such as shopping malls, shops, terminals, exhibition halls,
- Places exposed to heavy vehicle traffic, such as factories, warehouses, indoor parking lots, aircraft hangars,
- Offices and workplaces.

Advantages:
- Resistant to many chemicals and inorganic acids.
- Has high mechanical and abrasion resistance.
- Silica or quartz filler can be added.
- Hygienic and suitable for sterilised conditions. Does not contain **solvent**.
- Can easily be cleaned thanks to its smooth surface.
- Creates a seamless surface with a hard glass-like appearance.

Consumption:
1.50 kg/m² for 1 mm thickness. In self-levelling coatings, the thickness should be minimum 1.25 mm. According to system solutions, the method of application and its consumption vary depending on the surface's absorption, roughness and application method.

Packaging:
Sets of 25 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Comp. A (Resin): Liquid - RAL K7 colors* Comp. B (Hardener): Liquid - light yellow	
Packaging	: Comp. A: 20.76 kg, Comp. B: 4.24 kg	
Mixture Density	: 1.50 ± 0.05 g/cm³ (TS EN ISO 2811-2)	
Mixture Viscosity	: 1800 ± 360 mPas (TS EN ISO 3219-2)**	
Application Temperature	: Between +10°C and +30°C	
Hardness (Shore D)	: 75 ± 3 (TS EN ISO 868) 7 days	
Compressive Strength	: ≥ 50 N/mm² (TS EN 12190) 7 days	
Flexural Strength	: ≥ 35 N/mm² (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 2 N/mm² - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (25 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	50 minutes
	20°C	25 minutes
	30°C	15 minutes
Tack-Free Time	: 6 - 7 hours (23°C TS 4317)	
Recoating Time	: 12 - 24 hours (23°C TS 4317)	
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

* Standard RAL K7 colors (excluding metallic, fluorescent colors and colors starting with 4000)
** Test results are based on RAL 7035. Viscosity may vary in different colors.

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

REPOX® 520

Solvent-Free Textured Epoxy Floor Coating

Description:
Epoxy resin based, double component, **solvent-free**, **thixotropic**, colored **floor coating** material with an **orange peel appearance (textured)**.

Application Areas:
- Indoor,
- Horizontal applications, in places where slip resistance is required,
- Places exposed to heavy vehicle traffic, such as factories, warehouses and indoor parking lots,
- Places exposed to heavy pedestrian traffic, such as shopping malls, shops, terminals and exhibition halls,
- Pharmaceutical, paint, paper and food industries,
- Laundries, industrial kitchens and cafeterias,
- Aircraft maintenance hangars,
- Offices and workplaces.

Advantages:
- Provides non-slip properties to coating thanks to its textured surface.
- Has high mechanical and abrasion resistance.
- Resistant to many chemicals and inorganic acids.
- Hygienic and suitable for sterilised conditions. Does not contain **solvent**.
- Creates a seamless surface.

Consumption:
450 - 600 g/m² in single layer (280 - 375 µ dry film thickness). According to system solutions, the method of application and its consumption vary depending on the surface's absorption, roughness and application method.

Packaging:
Sets of 25 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Comp. A (Resin): Thix. liquid - RAL K7 colors* Comp. B (Hardener): Liquid - light yellow	
Packaging	: Comp. A: 21.65 kg, Comp. B: 3.35 kg	
Mixture Density	: 1.60 ± 0.05 g/cm³ (TS EN ISO 2811-2)	
Mixture Viscosity	: 6000 ± 1200 mPas (TS EN ISO 3219-2)**	
Application Temperature	: Between +10°C and +30°C	
Hardness (Shore D)	: 70 ± 3 (TS EN ISO 868) 7 days	
Compressive Strength	: ≥ 35 N/mm² (TS EN 12190) 7 days	
Flexural Strength	: ≥ 20 N/mm² (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 2 N/mm² - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (25 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	60 minutes
	20°C	30 minutes
	30°C	15 minutes
Tack-Free Time	: 6 - 7 hours (23°C TS 4317)	
Recoating Time	: 12 - 24 hours (23°C TS 4317)	
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

* Standard RAL K7 colors (excluding metallic, fluorescent colors and colors starting with 4000)
** Test results are based on RAL 7035. Viscosity may vary in different colors.

REPOX® 550

Epoxy Paint and Coating

Description:
Epoxy resin based, double component, **solvent-free**, colored, easy-to-clean, durable **paint** and **coating** material with high surface hardness, high chemical and mechanical resistance.

Application Areas:
- Indoor, on concrete and metal surfaces,
- As a paint on machinery, buildings and building parts made of metal,
- Water tanks,
- Hygienic places such as hospitals and laboratories,
- Pharmaceutical, paint, paper and food industries,
- Laundries, industrial kitchens and cafeterias,
- Places exposed to heavy pedestrian traffic, such as shopping malls, shops, terminals, exhibition halls,
- Places exposed to heavy vehicle traffic, such as factories, warehouses, indoor parking lots, aircraft hangars,
- Offices and workplaces.

Advantages:
- Has high mechanical and abrasion resistance.
- Does not contain **solvent**.
- Resistant to chemicals and inorganic acids.
- Hygienic and suitable for sterilised conditions, easy to clean.
- Has high surface hardness.

Consumption:
200 - 400 g/m² in single layer (125 - 250 µ dry film thickness). According to system solutions, the method of application and its consumption vary depending on the surface's absorption, roughness and application method.

Packaging:
Sets of 25 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Comp. A (Resin): Liquid - RAL K7 colors* Comp. B (Hardener): Liquid - light yellow	
Packaging	: Comp. A: 21.50 kg, Comp. B: 3.50 kg	
Mixture Density	: 1.60 ± 0.05 g/cm³ (TS EN ISO 2811-2)	
Mixture Viscosity	: 4000 - 9000 mPas (TS EN ISO 3219-2)**	
Application Temperature	: Between +10°C and +30°C	
Hardness (Shore D)	: 75 ± 3 (TS EN ISO 868) 7 days	
Compressive Strength	: ≥ 50 N/mm² (TS EN 12190) 7 days	
Flexural Strength	: ≥ 35 N/mm² (TS EN 12190) 7 days	
Adhesion Strength	: ≥ 2 N/mm² - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (25 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	90 minutes
	20°C	50 minutes
	30°C	30 minutes
Tack-Free Time	: 6 - 7 hours (23°C TS 4317)	
Recoating Time	: 12 - 24 hours (23°C TS 4317)	
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

* Standard RAL K7 colors (excluding metallic, fluorescent colors and colors starting with 4000)
** Test results are based on RAL 7035. Viscosity may vary in different colors.

REPOX® 560WB

Waterborne Epoxy Paint and Coating

Description:
Epoxy resin based, double component, **waterborne**, colored, easy-to-clean, water vapor permeable **paint** and **coating** material.

Application Areas:
- Indoor, on concrete floors where a dust-free surface is required,
- As paint on smooth-surfaced walls,
- Hygienic places such as hospitals and laboratories,
- Walls in food industry,
- Shopping malls, terminals and schools,
- Factories, warehouses, tunnels and indoor parking lots.

Advantages:
- Waterborne, odorless. Does not contain **solvent** and harmful chemicals.
- Can be applied on wet concrete surfaces, does not require primer.
- Hygienic and suitable for sterilised conditions. Can be diluted with water.
- Has permanent semi opaque surface.
- Has high mechanical strength against light and moderate loads.

Consumption:
150 - 250 g/m² in every layer (115 - 195 µ dry film thickness). According to system solutions, the method of application and its consumption vary depending on the surface's absorption, roughness and application method.

Packaging:
Sets of 25 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Comp. A (Resin): Liquid - RAL K7 colors* Comp. B (Hardener): Liquid - transparent	
Packaging	: Component A: 15 kg, Component B: 10 kg	
Solid Content (Mixture)	: 75% ± 4 by weight, 66% ± 4 by volume	
Mixture Density	: 1.30 ± 0.05 g/cm³ (TS EN ISO 2811-2)	
Mixture Viscosity	: 4000 ± 800 mPas (TS EN ISO 3219-2)**	
Application Temperature	: Between +10°C and +30°C	
Adhesion Strength	: ≥ 2 N/mm² - Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (25 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	170 minutes
	20°C	90 minutes
	30°C	50 minutes
Tack-Free Time	: 18 - 20 hours (23°C TS 4317)	
Recoating Time	: Max. 24 hours (23°C TS 4317)	
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Between -10°C and +60°C	

* Limited color options
** Test results are based on RAL 7035. Viscosity may vary in different colors.

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

POLAN® 590

Polyurethane Flexible Self-Levelling Coating

Description:
Polyurethane based, double component, solvent-free, **self-levelling**, **flexible floor coating** material with mechanical strength.

Application Areas:
- Indoor and outdoor,
- Horizontal applications,
- Hygienic places such as hospitals and laboratories,
- Food and medicine industries,
- Swimming and decorative pools,
- Places exposed to heavy vehicle and pedestrian traffic, such as shopping malls, factories, ateliers, warehouses, cold storage rooms.

Advantages:
- Can be safely used indoor as it does not contain **solvent**.
- Flexible, covers cracks on the surface.
- Gives better results in surfaces that are exposed to resonance.
- Forms a seamless and jointless surface, resistant to aging.
- Has high mechanical and abrasion resistance.
- Hygienic, suitable for sterilised environments, does not require maintenance.
- Easy to clean thanks to its smooth surface.

Consumption:
1.45 kg/m^2 for 1 mm dry film thickness (Varies depending on the surface's absorption, roughness and application method. Do not consume less than 0.7 kg/m^2.)

Packaging:
Sets of 25 kg (A+B) tin buckets

Technical Properties	
Components	: A: Polyurethane resin, B: Hardener
Appearance-Color	: Standard RAL colors (Except metallic, fluorescent colors and colors beginning with 4000)
Mixing Ratio	: Component A: 20 kg, Component B: 5 kg
Mixture Density	: 1.45 ± 0.05 kg/L (23°C TS EN ISO 2811-1)
Compressive Strength	: 35 - 45 N/mm^2 (DIN 53504 TS 1967) 7 days
Flexural Strength	: 10 - 18 N/mm^2 (DIN 52371 TS 985) 7 days
Bond Strength by Pull-off	: > 2 N/mm^2 (EN 1504-2) 7 days
Tensile Elongation	: > 60% (DIN 53504 TS 1967) 7 days
Abrasion Resistance (Taber)	: < 60 mg, 1000 cycle (EN 1504-2)
Impact Resistance	: Class III (EN 1504-2)
Capillary Absorption and Water Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3)
Solid Content (Mixture)	: By weight 100%, by volume 100%
Hardness (Shore A)	: 80 ± 5 (ASTM D 2240, DIN 53505)
Pot Life	: 30 - 40 minutes (23°C, 200 g, DIN 16945)
Application Temperature	: Between +10°C and +30°C
Dirt Pick-up Time	: 1 - 2 hours (23°C TS 4317)
Tack Free Time	: 5 - 7 hours (23°C TS 4317)
Time to Use	: 72 hours (23°C TS 4317)
Recoating Time	: No later than 24 hours from primer application (23°C TS 4317)
Complete Curing Time	: 7 days (23°C TS 4317)

POLAN® AF

Polyurethane Aliphatic Top Coat Paint (UV Resistant)

Description:
Polyurethane/aliphatic isocyanate based, double component, solventborne, **UV resistant**, **glossy** top coat paint which is resistant to scratching with high color stability and mechanical resistance.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Concrete, steel and wooden surfaces,
- Epoxy and polyurethane coatings,
- Outer surfaces of vehicles such as tanks, tankers and concrete mixers,
- As the top coat in places open to atmopheric conditions where high UV resistance, color permanency and glossiness is required.

Advantages:
- Has color stability. Resistant to **UV**. Does not turn to yellow.
- Resistant to atmopheric conditions.
- Glossy.
- Flexible, covers cracks on the surface.
- Resistant to scratches, resistant to aging.
- Resistant to salt water, salt solutions, bases, diluted weak acids, gasoline and mineral oils.
- Forms a seamless and jointless surface, does not require maintenance.
- Easy to apply with an airless spray gun or roller.
- Easy to clean thanks to its smooth surface.

Consumption:
80 - 150 g/m^2 for maximum 80 µ thickness in single layer. (Varies depending on the surface's absorption, roughness and application method. Recommended to apply minimum 2 layers.)

Packaging:
Sets of 20 kg (A+B) tin buckets

Technical Properties	
Components	: A: Polyurethane resin, B: Hardener
Appearance-Color	: Standard glossy RAL colors (Except metallic and fluorescent colors)
Mixing Ratio	: Component A: 16 kg, Component B: 4 kg
Mixture Density	: 1.25 ± 0.05 kg/L (23°C TS EN ISO 2811-1)*
Mixture Viscosity	: 100 - 1100 mPas (23°C)*
Bond Strength by Pull-off	: > 2 N/mm^2 (EN 1504-2) 7 days
Abrasion Resistance (Taber)	: 75 mg, 1000 cycle (EN 1504-2)
Impact Resistance	: Class III (EN 1504-2)
Capillary Absorption and Water Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3)
Solid Content (Mixture)	: By weight 78% ± 2, by volume 67% ± 2*
Flash Point	: > 21°C
Pot Life	: 4 - 6 hours (23°C, 200 g)
Application Temperature	: Between +10°C and +30°C
Dirt Pick-up Time	: 20 minutes (23°C)
Tack Free Time	: 60 minutes (23°C)
Time to Use	: 8 hours (23°C)
Recoating Time	: No later than 24 hours from primer application (23°C TS 4317)
Complete Curing Time	: 7 days (23°C TS 4317)

* Mixture density, solid content (mixture) and viscosity may vary in different colors.

POLAN® AFM

Polyurethane Aliphatic Top Coat Paint Semi-Matte Finish (UV Resistant)

Description:
Polyurethane/aliphatic isocyanate based, double component, solventborne, mechanically resistant, **UV resistant**, **semi-matte** top coat paint with high color stability and resistance to scratching.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Concrete, steel and wooden surfaces,
- Epoxy and polyurethane coatings,
- Floor coatings of sports fields,
- Outer surfaces of vehicles such as tanks, tankers and concrete mixers,
- Applications where glossiness is not required (semi-matte),
- As the top coat in places open to atmopheric conditions where high UV resistance, color permanency and semi-matte looking is required.

Advantages:
- Has semi-matte appearance.
- Has color stability. Resistant to **UV.** Does not turn to yellow.
- Resistant to atmopheric conditions.
- Flexible, covers cracks on the surface.
- Resistant to scratches, resistant to aging.
- Resistant to salt water, salt solutions, bases, diluted weak acids, gasoline and mineral oils.
- Forms a seamless and jointless surface, does not require maintenance.
- Easy to apply with an airless spray gun or roller.
- Easy to clean thanks to its smooth surface.

Consumption:
90 - 150 g/m^2 for maximum 80 µ thickness in single layer (Varies depending on the surface's absorption, roughness and application method. Recommended to apply minimum 2 layers.)

Packaging:
Sets of 24 kg (A+B) tin buckets

Technical Properties	
Components	: A: Polyurethane resin, B: Hardener
Appearance-Color	: Standard semi-matte RAL colors (Except metallic and fluorescent colors)
Mixing Ratio	: Component A: 20 kg, Component B: 4 kg
Mixture Density	: 1.35 ± 0.05 kg/L (23°C TS EN ISO 2811-1)*
Mixture Viscosity	: 100 - 1100 mPas (23°C)*
Bond Strength by Pull-off	: > 2 N/mm^2 (EN 1504-2) 7 days
Abrasion Resistance (Taber)	: 75 mg, 1000 cycle (EN 1504-2)
Impact Resistance	: Class III (EN 1504-2)
Capillary Absorption and Water Permeability	: w < 0.1 kg/(m^2.h$^{0.5}$) (EN 1062-3)
Solid Content (Mixture)	: By weight 78% ± 2, by volume 67% ± 2*
Flash Point	: > 21°C
Pot Life	: 4 - 6 hours (23°C, 200 g)
Application Temperature	: Between +10°C and +30°C
Dirt Pick-up Time	: 20 minutes (23°C)
Tack Free Time	: 60 minutes (23°C)
Time to Use	: 8 hours (23°C)
Recoating Time	: No later than 24 hours from primer application (23°C TS 4317)
Complete Curing Time	: 7 days (23°C TS 4317)

* Mixture density, solid content (mixture) and viscosity may vary in different colors.

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

DUROPAINT®
Floor Paint

Description:
Chlorinated rubber resin based, thixotropic, cold and thick applied **marking** and **floor** paint.

Application Areas:
- Indoor and outdoor,
- Painting and marking parking garages, motorways (light traffic), pedestrian ways and curbsides,
- Factory floors where chemical resistance is not required extensively,
- Sport areas and playgrounds,
- Hotels, laundries and service areas.

Advantages:
- Economical compared to epoxy based paints.
- Does not require primer.
- Since it is single component, it is easy to use, saves time and labor.
- Forms a thick and a high abrasion resistant surface.
- Easily wiped and washed. Does not scratch and does not allow dirt pick-up.
- Dries fast (in 90 minutes) and the painted area gets ready for use quickly.

Consumption:
Approximately 250 g/m^2 on each layer (Varies depending on the surface's absorption, roughness.) Minimum 2 layers are applied.

Packaging:
25 kg tin buckets

Colors:

RAL Code	Colors
9010	White
6002	Green
1023	Yellow
7001	Grey
5012	Blue
9005	Black

Technical Properties	
Appearance	: Thixotropic paint
Density	: 1.40 ± 0.10 kg/L
Diluent	: Rapid thinner (Max. 15%)
Application Temperature	: Between +5°C and +30°C
Drying Time	: ~ 90 minutes (20°C)
Film Thickness	: Minimum 0.4 mm in one coat
Complete Curing Time	: ~ 24 hours

FİXA®
Polyethylene Backer Rod

Description:
Polyethylene (PE) based, closed cell structured backer rod, used in adjusting joint depth.

Application Areas:
- Supporting the filler chemical used in joint and dilatation insulation,
- As joint filler in junctions of structural members such as doors and windows with the wall,
- To provide proper movements of joints by adjusting the joint depth,
- To prevent the joint sealant from bonding to the slab and to better accommodate structural floor movement.

Advantages:
- Reduces costs by preventing excess use of fillers such as sealants.
- Does not adhere to MS, hybrid and polyurethane sealants applied on it and moves inside the joint separately.
- Flexible and can be squeezed.
- Air and water impermeable.
- Prolongs the life of joint sealant.
- Neutral, does not emit odor.
- Easy to apply.

Consumption:
Varies depending on the joint width.

Packaging:

Diameter	Meter/Bag
6 mm	2,000
8 mm	1,200
10 mm	1,000
15 mm	500
20 mm	270
25 mm	180
30 mm	120
35 mm	100
40 mm	80
50 mm	50
60 mm	40
70 mm	20

Technical Properties	
Appearance	: Grey colored PE rod
Density	: 25 - 30 kg/m^3
Heat Conductivity Coefficient (λ)	: 0.04 W/mK
Water Absorption Sensitivity	: 1.5% change in volume after 28 days in water
Water Vapor Diffusion Coefficient (μ)	: ≥ 3,500
Service Temperature	: Between -40°C and +100°C

POLIMIX
Polypropylene Fiber

Description:
Polypropylene based **fiber**, produced especially for concrete and mortars, resistant to acids and alkalis and **reduces cracking in concrete**.

Application Areas:
Concrete Slab:
- Industrial floors, parking garages, hangar floors, airports,
- Machinery foundations exposed to abrasion,
- Water tanks, swimming pool concrete,
- Thin floorings.

Mortars:
- All types of plaster, repair and insulation purposed mortars.

Precast Elements:
- Manufacturing concrete pipes and elements,
- All types of precast elements.

Shotcrete:
- All types of shotcrete applications.

Advantages:
- Resistant to water and alkali.
- Resistant to abrasion, increases resistance to impacts.
- Has high mechanical resistance thanks to effective dispersion in the concrete and low segregation.
- Since it prevents cracks, it can help waterproofing by removing capillary voids where water may leak in.
- Prevents shrinkage that results from water loss in fresh concrete by increasing tensile strength.
- Increases the resistance of concrete against fire.
- Reduces corrosion of metal reinforcement.
- Has lower cracking tendency.
- Increases strength against fractures on concrete edges and sides.

Consumption:
600 - 900 g in 1 m^3 concrete depending on usage.

Packaging:
In water soluble bags of 600 g or 900 g (Sizes from 3 mm, 6 mm, 12 mm, 19 mm... up to 60 mm are available.)

Technical Properties	
Appearance	: Transparent white fiber
Density	: ~ 0.91 kg/L
Tensile Strength	: 500 - 700 N/mm^2
Modulus of Elasticity	: 2,000 - 2,800 N/mm^2
Alkaline Reaction	: Stable
Acid Reaction	: Stable
Moisture Uptake	: 70% moisture and 21°C < 0.10%
Heat Resistance	: Melts at +165°C
Elongation	: 25%
Flash Point	: > 239°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

STEELMIX

Steel Wire for Concrete Reinforcement

Description:
Low-carbon **steel wire**, produced by cold drawing method, produced especially for concrete, which provides **high flexural** and **impact strength** in **concrete**.

Application Areas:
- All types of open and closed concrete slab,
- Prefabricated elements, concrete pipes,
- Shotcrete applications,
- Anti-seismic structures.

Advantages:
- Provides high resistance to impacts.
- Increases flexural strength by 50 - 70%.
- Provides strength against shrinkage and high resistance to dynamic loads and fatigue.
- Prevents crack formation and widening.
- Economical, increases construction speed.

Consumption:
10 - 45 kg in 1 m^3 concrete depending on usage.

Packaging:
25 kg cardboard boxes

Technical Properties	
Appearance	: Grey steel wire
Elongation at Break	: < 2%
Wire Drawing Strength	: -1100 N/mm^2

THERMAL INSULATION SYSTEMS

FIRSTLEVEL®
Multi-Purpose Primer

Description:
Acrylic based, single component, ready-to-use **primer** for absorbent surfaces.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- To increase adherence prior to adhesive, plaster and decorative plaster applications,
- To protect water absorbent surfaces such as gypsum-plaster, gypsum board, gas concrete, chipboard, briquette from moisture,
- As primer before painting and wall paper applications,
- To increase the adherence before applications on old surfaces.

Advantages:
- Economical. Ready to use, easily and quickly applied.
- Prevents the mortar to lose its water fast when applied prior to cement based coatings on absorbent surfaces.
- Provides resistance to moisture.
- Provides high adherence.
- Waterborne, odorless and safe to use indoor.

Consumption:
100 - 200 g/m^2 (Varies depending on the absorption and roughness of the surface.)

Packaging:
5 kg and 20 kg plastic jerrycans

Technical Properties	
Appearance	: White colored liquid
Liquid Density	: ~ 1.02 kg/L
Application Temperature	: Between +5°C and +35°C
Drying Time	: 45 - 60 minutes
Second Coat Application Time	: 1 - 1.5 hours
Service Temperature	: Between -30°C and +80°C

DECOPRIMER®
Decorative Plaster Primer

Description:
Acrylic dispersion based, waterborne, single component, white colored **primer** with high adhesion properties which can be used under all cement based interior and exterior coating materials.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- To increase adherence prior to the application of decorative plasters on thermal insulation board plasters,
- As a primer before applications on old surfaces,
- Under all cement based interior and exterior facade coating materials.

Advantages:
- Provides high adherence between the surface and the coating mortar.
- Prevents the mortar to lose its water fast when applied prior to cement based coatings on absorbent surfaces.
- Provides resistance to moisture.
- Covers the surface well.
- Ready to use, easily and quickly applied.
- Waterborne, odorless and safe to use indoor.
- Easy to apply with its white color in thermal insulation applications.

Consumption:
100 - 300 g/m^2 (Varies depending on the application surface.)

Packaging:
15 kg plastic buckets

Technical Properties	
Appearance	: White colored acrylic dispersion
Density	: ~ 1.55 kg/L
Application Temperature	: Between +5°C and +35°C
Drying Time	: ~ 6 hours
Service Temperature	: Between -30°C and +80°C

AKRILAN® 700
Acrylic Adhesive for Thermal Insulation Systems

Description:
Acrylic dispersion based, high performance, **ready-to-use**, paste type adhesive for bonding of thermal insulation boards.

Application Areas:
- Indoor and outdoor,
- Mineral based surfaces,
- Bonding of thermal insulation boards (EPS, XPS, stone wool etc.) on surfaces such as painted, gypsum board, gypsum-plaster, cement-bonded particle boards and wood.

Advantages:
- Ready to use. Does not produce dust like cement based products.
- Does not contain solvent, odorless. Safe to use indoor.
- Since it is more elastic and provides a stronger bond compared to cement-based adhesives, it is preferred in bonding thermal and acoustic insulation boards on painted surfaces, especially indoor.
- Resistant to moisture.
- Easy to apply and saves labor.
- Allows water vapor permeability.

Consumption:
3.5 - 4 kg/m^2 (Varies depending on the application surface.)

Packaging:
15 kg plastic buckets

Technical Properties	
Appearance	: White colored acrylic dispersion
Density	: ~ 1.50 kg/L
Application Temperature	: Between +5°C and +35°C
Adhesion Strength	: ≥ 1 N/mm^2 (TS EN 1015-12)
Working Time	: 20 minutes
Fixing with Wall Plugs	: Minimum 48 hours later
Plaster Application Time	: 1 - 2 days later
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

PU 961

PU Adhesive Foam

Description:
Single component **polyurethane** foam which is cured very fast with the moisture in the air. It is applied with its special gun and used for fast and strong adhesion of thermal insulation boards.

Application Areas:
- Indoor and outdoor,
- Bonding of EPS and XPS boards used in thermal insulation systems,
- Bonding and fixing of materials such as wood, concrete, metal, brick etc.
- Bonding of decorative construction elements such as EPS decorative frames used on facades,
- Applications where minimum expansion of foam is required,
- Assembly and insulating frames of doors and windows.

Advantages:
- Bonds perfectly on all types of surfaces (except PE, PP, teflon).
- Has high thermal and acoustic insulation property.
- Resistant to all kinds of weather conditions and vapor.
- Its expansion on the surface is minimum. Does not expand and lose volume when cured.
- Enables working even in low temperatures.
- Enables plugging after approximately 2 hours due to fast curing. Saves time.
- Easy to apply, labor efficient.
- Water impermeable, mould resistant and overpaintable.
- Ready to use.
- Does not contain propellant gases harmful to ozone layer.

Consumption:
40 - 50 L/1000 ml (Varies depending on the application surface and the application method.)

Packaging:
750 ml (Gross 850 g) pressurized tin cans

Technical Properties	
Appearance	: Pink colored foam
Mixture Density	: 21 ± 3 g/cm³ (ASTM D1622)
Tack-Free Time	: 6 ± 2 min. (ASTM C1620) (1 cm width)
Cutting Time	: 25 - 35 min. (ASTM C1620) (1 cm width)
Fire Class (Cured Foam)	: B3 (DIN 4102)
Expansion Rate	: 30 - 50%
Yield	: 40 - 50 L/1000 ml (ASTM C 1536)
Thermal Conductivity Coef.	: 0.030 W/mK (+20°C) (DIN 52612)
Application Temperature	: Between +5°C and +30°C
Service Temperature	: Between -40°C and +100°C

STRAFIX®

Thermal Insulation Board Adhesive Mortar

Description:
Cement based, polymer added, high performance, flexible **adhesive** mortar with high stability for thermal insulation boards.

Application Areas:
- Indoor and outdoor,
- Bonding of thermal insulation boards (EPS, XPS and stone wool) on concrete, brick, gas concrete and similar surfaces with coarse and fine plaster.

Advantages:
- Easy to apply, provides perfect adhesion.
- Resistant to water and frost.
- Not affected by temperature changes.
- Flexible.
- Provides high stability, does not sag and crack.

Consumption:
Varies depending on the application method:
For EPS and XPS : 3 - 4 kg/m²
For stone wool : 4 - 5 kg/m²

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 2 hours
Open Time	: 15 minutes
Fixing with Wall Plugs	: Minimum 24 hours later
Plaster Application Time	: 1 - 2 days later
Application Temperature	: Between +5°C and +35°C
Aggregate Size	: Amount over 1 mm sieve ≤ 1% (TS EN 1015-1)
Bulk Density of Fresh Mortar	: ≥ 1000 kg/m³ (TS EN 1015-6)
Flexural Strength	: ≥ 2 N/mm² (TS EN 1015-11)
Compressive Strength	: ≥ 6 N/mm² (TS EN 1015-11)
Adhesion Strength to the Substrate	: ≥ 0.5 N/mm² (TS EN 1015-12)
Adhesion Strength to Thermal Insulation Board	: ≥ 0.08 N/mm² (TS EN 13494)
Water Absorption	: After 30 minutes: ≤ 5 g After 240 minutes: ≤ 10 g (TS EN 12808-5)
Service Temperature	: Between -20°C and +70°C

PROX® 540

Thermal Insulation Board Adhesive Mortar

Description:
Cement based **adhesive** mortar for thermal insulation boards.

Application Areas:
- Indoor and outdoor,
- Bonding of thermal insulation boards (EPS and XPS) on concrete, brick, gas concrete and similar surfaces with coarse and fine plaster.

Advantages:
- Easy to apply, provides perfect adhesion.
- Resistant to water and frost.
- Not affected by temperature changes.
- Does not sag and crack on vertical surfaces.

Consumption:
3 - 4 kg/m² (Varies depending on the application method.)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 minutes
Pot Life	: ~ 1.5 hours
Open Time	: 15 minutes
Fixing with Wall Plugs	: Minimum 24 hours later
Plaster Application Time	: 1 - 2 days later
Application Temperature	: Between +5°C and +35°C
Aggregate Size	: Amount over 1 mm sieve ≤ 1% (TS EN 1015-1)
Bulk Density of Fresh Mortar	: ≥ 1000 kg/m³ (TS EN 1015-6)
Flexural Strength	: ≥ 2 N/mm² (TS EN 1015-11)
Compressive Strength	: ≥ 6 N/mm² (TS EN 1015-11)
Adhesion Strength to the Substrate	: ≥ 0.5 N/mm² (TS EN 1015-12)
Adhesion Strength to Thermal Insulation Board	: ≥ 0.08 N/mm² (TS EN 13494)
Water Absorption	: After 30 minutes: ≤ 5 g After 240 minutes: ≤ 10 g (TS EN 12808-5)
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

STRAFIX®

Thermal Insulation Board Plastering Mortar - Fiber Supported (Fine)

Description:
Cement based, polymer added, high performance, **fiber supported**, **fine aggregated plastering** mortar for thermal insulation boards.

Application Areas:
- Indoor and outdoor,
- As a surface plaster on thermal insulation boards (EPS, XPS and stone wool).

Advantages:
- Easy to apply, provides perfect adhesion.
- Resistant to water and frost.
- Not affected by temperature changes.
- Flexible.
- Provides high stability, does not sag and crack.
- Water vapor permeable, allows the surface to breathe.
- Can be directly overpainted.

Consumption:
3 - 4 kg/m^2 (Varies depending on the application method.)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 2 hours
Application Temperature	: Between +5°C and +35°C
Aggregate Size	: Amount over 1 mm sieve ≤ 1% (TS EN 1015-1)
Bulk Density of Fresh Mortar	: ≥ 1150 kg/m^3 (TS EN 1015-6)
Dry Bulk Density of Hardened Mortar	: 1400 ± 200 kg/m^3 (TS EN 1015-10)
Flexural Strength	: ≥ 2 N/mm^2 (TS EN 1015-11)
Compressive Strength	: ≥ 6 N/mm^2 (TS EN 1015-11)
Adhesion Strength to Thermal Insulation Board	: ≥ 0.08 N/mm^2 (TS EN 13494)
Water Absorption	: ≤ 0.5 kg/(m^2.min$^{0.5}$) (TS EN 1015-18)
Water Vapor Permeability Coefficient (μ)	: ≤ 15 (TS EN 1015-19)
Thermal Conductivity	: 0.61 λ_u W/mK (TS EN 1745 - Table A12) (P:50%)
Service Temperature	: Between -20°C and +70°C

STRAFIX®

Thermal Insulation Board Plastering Mortar - Fiber Supported (Coarse)

Description:
Cement based, polymer added, high performance, **fiber supported**, **coarse aggregated plastering** mortar for thermal insulation boards.

Application Areas:
- Indoor and outdoor,
- As a surface plaster on thermal insulation boards (EPS, XPS and stone wool).

Advantages:
- Easy to apply, provides perfect adhesion.
- Resistant to water and frost.
- Not affected by temperature changes.
- Flexible.
- Provides high stability, does not sag and crack.
- Water vapor permeable, allows the surface to breathe.
- Can be directly overpainted.

Consumption:
4 - 5 kg/m^2 (Varies depending on the application method.)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored coarse powder
Powder Density	: ~ 1.55 kg/L
Water Mixing Ratio	: 5 - 6 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 2 hours
Application Temperature	: Between +5°C and +35°C
Bulk Density of Fresh Mortar	: ≥ 1150 kg/m^3 (TS EN 1015-6)
Dry Bulk Density of Hardened Mortar	: 1400 ± 200 kg/m^3 (TS EN 1015-10)
Flexural Strength	: ≥ 2 N/mm^2 (TS EN 1015-11)
Compressive Strength	: ≥ 6 N/mm^2 (TS EN 1015-11)
Adhesion Strength to Thermal Insulation Board	: ≥ 0.08 N/mm^2 (TS EN 13494)
Water Absorption	: ≤ 0.5 kg/(m^2.min$^{0.5}$) (TS EN 1015-18)
Water Vapor Permeability Coefficient (μ)	: ≤ 15 (TS EN 1015-19)
Thermal Conductivity	: 0.61 λ_u W/mK (TS EN 1745 - Table A12) (P:50%)
Service Temperature	: Between -20°C and +70°C

STRAFIX®

Decorative Plaster 15 Mineral Textured - White (Fine)

Description:
White cement based, single component, polymer added, **decorative** facade top coat with **1.5 mm mineral granular texture** applied with a trowel.

Application Areas:
- As a top coat decorative coating material in thermal insulation systems,
- Interior and exterior facade plasters.

Advantages:
- Easy to apply, provides perfect adhesion.
- Has a decorative look and provides homogenous application.
- Wavelike appearance in imperfect thermal insulation system applications can be corrected.
- Resistant to water and frost.
- Resists to external impacts and protects the building for long time.
- Water vapor permeable, allows the surface to breathe.
- Exterior facade paints can be applied on it.
- Fine granular texture reduces product consumption.

Consumption:
2.25 - 2.75 kg/m^2 (Varies depending on the application surface.)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored granule
Powder Density	: ~ 1.50 kg/L
Water Mixing Ratio	: 6 - 6.5 L water / 25 kg powder
Resting Period	: 5 minutes
Pot Life	: 1.5 - 2 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS IV; ≥ 6.0 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.45 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W1; C ≤ 0.40 kg/(m^2.minute$^{0.5}$) (EN 1015-18)
Water Vapor Permeability Coefficient (μ)	: ≤ 20 (EN 1015-19)
Application Thickness	: ~ 1.5 mm
Complete Drying Time	: 1 - 2 days
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

STRAFIX®

Decorative Plaster 20
Mineral Textured - White (Coarse)

Description:
White cement based, single component, polymer added, **decorative** facade top coat with **2 mm mineral granular texture** applied with a trowel.

Application Areas:
- As a top coat decorative coating material in thermal insulation systems,
- Interior and exterior facade plasters.

Advantages:
- Easy to apply, provides perfect adhesion.
- Has a decorative look and provides homogenous application.
- Wavelike appearance in imperfect thermal insulation system applications can be corrected.
- Resistant to water and frost.
- Resists to external impacts and protects the building for long time.
- Water vapor permeable, allows the surface to breathe.
- Exterior facade paints can be applied on it.

Consumption:
2.50 - 3.50 kg/m^2 (Varies depending on the application surface.)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored granule
Powder Density	: ~ 1.55 kg/L
Water Mixing Ratio	: 6 - 6.5 L water / 25 kg powder
Resting Period	: 5 minutes
Pot Life	: 1.5 - 2 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS IV; ≥ 6.0 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.45 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W1; C ≤ 0.40 kg/(m^2.minute$^{0.5}$) (EN 1015-18)
Water Vapor Permeability Coefficient (μ)	: ≤ 20 (EN 1015-19)
Application Thickness	: ~ 2 mm
Complete Drying Time	: 1 - 2 days
Service Temperature	: Between -20°C and +70°C

STRAFIX®

Decorative Plaster C30
Fine Line Patterned (White)

Description:
White cement based, single component, polymer added, **fine line patterned decorative** facade top coat applied with a trowel.

Application Areas:
- As a top coat decorative coating material in thermal insulation systems,
- Interior and exterior facade plasters.

Advantages:
- Easy to apply, provides perfect adhesion.
- Has a decorative look thanks to its particular fine line patterns.
- Wavelike appearance in imperfect thermal insulation system applications can be corrected.
- Resistant to water and frost.
- Resists to external impacts and protects the building for long time.
- Water vapor permeable, allows the surface to breathe.
- Exterior facade paints can be applied on it.

Consumption:
3.5 - 4 kg/m^2 (Varies depending on the application surface.)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored granule
Powder Density	: ~ 1.55 kg/L
Water Mixing Ratio	: 6 - 6.5 L water / 25 kg powder
Resting Period	: 5 minutes
Pot Life	: 1.5 - 2 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS III; 3.5 - 7.5 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.45 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W2; C ≤ 0.20 kg/(m^2.minute$^{0.5}$) (EN 1015-18)
Water Vapor Permeability Coefficient (μ)	: ≤ 15 (EN 1015-19)
Application Thickness	: ~ 2 mm
Complete Drying Time	: 1 - 2 days
Service Temperature	: Between -20°C and +70°C

STRAFIX®

Decorative Plaster C40
Coarse Line Textured (White)

Description:
White cement based, single component, polymer added, **coarse line textured decorative** facade top coat applied with a trowel.

Application Areas:
- As a top coat decorative coating material in thermal insulation systems,
- Interior and exterior facade plasters.

Advantages:
- Easy to apply, provides perfect adhesion.
- Has a decorative look thanks to its particular coarse line texture.
- Wavelike appearance in imperfect thermal insulation system applications can be corrected.
- Resistant to water and frost.
- Resists to external impacts and protects the building for long time.
- Water vapor permeable, allows the surface to breathe.
- Exterior facade paints can be applied on it.

Consumption:
3.5 - 4 kg/m^2 (Varies depending on the application surface.)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored granule
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 6 - 6.5 L water / 25 kg powder
Resting Period	: 5 minutes
Pot Life	: 1.5 - 2 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS III; 3.5 - 7.5 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.45 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W2; C ≤ 0.20 kg/(m^2.minute$^{0.5}$) (EN 1015-18)
Water Vapor Permeability Coefficient (μ)	: ≤ 15 (EN 1015-19)
Application Thickness	: 2 - 3 mm
Complete Drying Time	: 1 - 2 days
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

PROX® 550

Thermal Insulation Board Plastering Mortar - Fiber Supported (Fine)

Description:
Cement based, **fiber supported**, **fine aggregated plastering** mortar formulated for thermal insulation boards.

Application Areas:
- Indoor and outdoor,
- As a surface plaster on thermal insulation boards (EPS and XPS).

Advantages:
- Easy to apply, provides good adhesion.
- Resistant to water and frost.
- Not affected by temperature changes.
- Does not sag and crack on vertical surfaces.
- Water vapor permeable, allows the surface to breathe.
- Can be directly overpainted.

Consumption:
3 - 4 kg/m^2 (Varies depending on the application method.)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 1.5 hours
Application Temperature	: Between +5°C and +35°C
Aggregate Size	: Amount above of 1 mm sieve ≤ 1% (TS EN 1015-1)
Bulk Density of Fresh Mortar	: ≥ 1150 kg/m^3 (TS EN 1015-6)
Dry Bulk Density of Hardened Mortar	: 1400 ± 200 kg/m^3 (TS EN 1015-10)
Flexural Strength	: ≥ 2 N/mm^2 (TS EN 1015-11)
Compressive Strength	: ≥ 6 N/mm^2 (TS EN 1015-11)
Adhesion Strength to Thermal Insulation Board	: ≥ 0.08 N/mm^2 (TS EN 13494)
Water Absorption	: ≤ 0.5 kg/(m^2.min$^{0.5}$) (TS EN 1015-18)
Water Vapor Permeability Coefficient (μ)	: ≤ 15 (TS EN 1015-19)
Thermal Conductivity	: 0.61 λ_h W/mK (TS EN 1745 - Table A12) (P:50%)
Service Temperature	: Between -20°C and +70°C

PROX® 552

Thermal Insulation Board Plastering Mortar - Fiber Supported (Coarse)

Description:
Cement based, **fiber supported**, **coarse aggregated plastering** mortar formulated for thermal insulation boards.

Application Areas:
- Indoor and outdoor,
- As a surface plaster on thermal insulation boards (EPS and XPS).

Advantages:
- Easy to apply, provides good adhesion.
- Resistant to water and frost.
- Not affected by temperature changes.
- Does not sag and crack on vertical surfaces.
- Water vapor permeable, allows the surface to breathe.
- Can be directly overpainted.

Consumption:
4 - 5 kg/m^2 (Varies depending on the application method.)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored coarse powder
Powder Density	: ~ 1.55 kg/L
Water Mixing Ratio	: 5 - 6 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 1.5 hours
Application Temperature	: Between +5°C and +35°C
Bulk Density of Fresh Mortar	: ≥ 1150 kg/m^3 (TS EN 1015-6)
Dry Bulk Density of Hardened Mortar	: 1400 ± 200 kg/m^3 (TS EN 1015-10)
Flexural Strength	: ≥ 2 N/mm^2 (TS EN 1015-11)
Compressive Strength	: ≥ 6 N/mm^2 (TS EN 1015-11)
Adhesion Strength to Thermal Insulation Board	: ≥ 0.08 N/mm^2 (TS EN 13494)
Water Absorption	: ≤ 0.5 kg/(m^2.min$^{0.5}$) (TS EN 1015-18)
Water Vapor Permeability Coefficient (μ)	: ≤ 15 (TS EN 1015-19)
Thermal Conductivity	: 0.61 λ_h W/mK (TS EN 1745 - Table A12) (P:50%)
Service Temperature	: Between -20°C and +70°C

PROX® 581

Decorative Plaster Mineral Textured - White (Fine)

Description:
White cement based, single component, polymer added, trowel applied, **decorative** facade top coat with **1.5 mm mineral granular texture**.

Application Areas:
- As a top coat decorative coating material in thermal insulation systems,
- Interior and exterior facade plasters.

Advantages:
- Easy to apply, provides good adhesion.
- Has a decorative look and provides homogenous application.
- Wavelike appearance in imperfect thermal insulation system applications can be corrected.
- Resistant to water and frost.
- Resists to external impacts and protects the building for long time.
- Water vapor permeable, allows the surface to breathe.
- Exterior facade paints can be applied on it.
- Fine granular texture reduces product consumption.

Consumption:
2.25 - 2.75 kg/m^2 (Varies depending on the application surface.)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored granule
Powder Density	: ~ 1.50 kg/L
Water Mixing Ratio	: 6 - 6.5 L water / 25 kg powder
Resting Period	: 5 minutes
Pot Life	: 1.5 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS IV; ≥ 6.0 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.45 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W1; C ≤ 0.40 kg/(m^2.minute$^{0.5}$) (EN 1015-18)
Water Vapor Permeability Coefficient (μ)	: ≤ 20 (EN 1015-19)
Application Thickness	: ~ 1.5 mm
Complete Drying Time	: 1 - 2 days
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

PROX® 582

Decorative Plaster Mineral Textured - White (Coarse)

Description:
White cement based, single component, polymer added, trolwel applied, **decorative** facade top coat with **2 mm mineral granular texture**.

Application Areas:
- As a top coat decorative coating material in thermal insulation systems,
- Interior and exterior facade plasters.

Advantages:
- Easy to apply, provides good adhesion.
- Has a decorative look and provides homogenous application.
- Wavelike appearance in imperfect thermal insulation system applications can be corrected.
- Resistant to water and frost.
- Resistant to external impacts and protects the building for long time.
- Water vapor permeable, allows the surface to breathe.
- Exterior facade paints can be applied on it.

Consumption:
2.50 - 3.50 kg/m^2 (Varies depending on the application surface.)

Packaging:
25 kg kraft bags

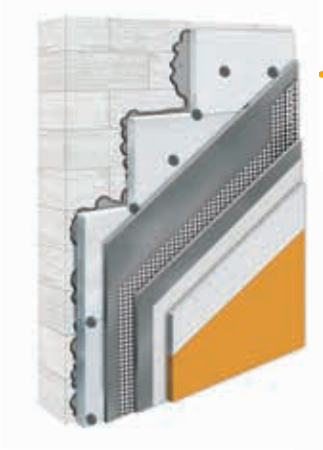
Technical Properties	
Appearance	: White colored granule
Powder Density	: ~ 1.55 kg/L
Water Mixing Ratio	: 6 - 6.5 L water / 25 kg powder
Resting Period	: 5 minutes
Pot Life	: 1.5 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS IV; ≥ 6.0 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.45 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W1; C ≤ 0.40 kg/(m^2.minute$^{0.5}$) (EN 1015-18)
Water Vapor Permeability Coefficient (μ)	: ≤ 20 (EN 1015-19)
Application Thickness	: ~ 2 mm
Complete Drying Time	: 1 - 2 days
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

STRAFIX® THERMAL INSULATION SYSTEMS COMPONENTS

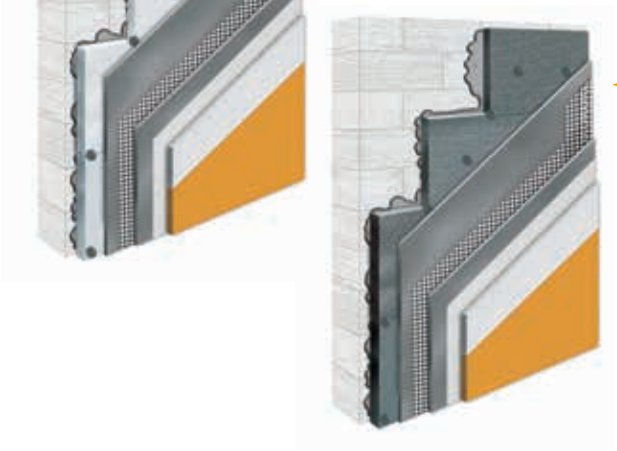
STRAFIX Thermal Insulation Systems, developed by FİXA Construction Chemicals for **reliable**, **longlasting** and **economical insulation**, to provide you up to **50% energy savings** and reduce expenditures by protecting the buildings both from heat and cold, allowing the heat to be evenly distributed in the building.

There are **2** types of packages:



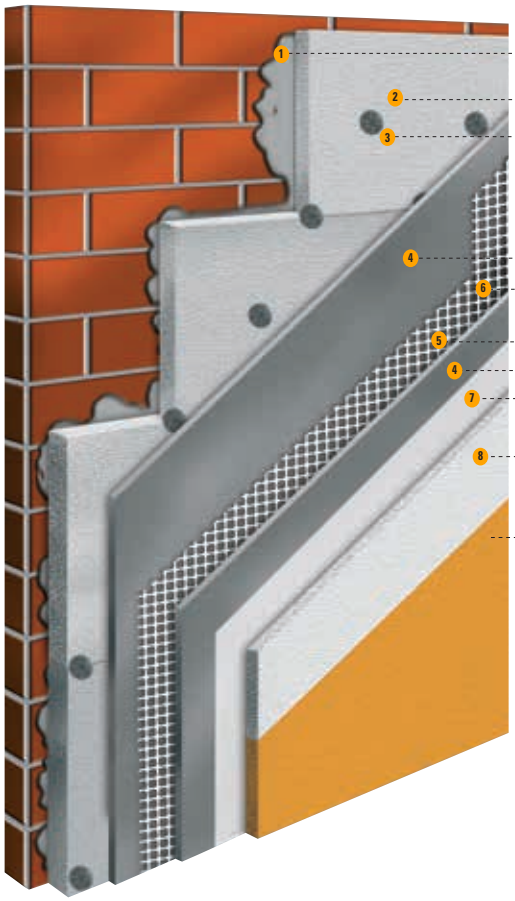
EPS White

Package 1



EPS Graphite Added

Package 2



1 → **STRAFIX Adhesive Mortar**
2 → **STRAFIX Thermal Insulation Board**
3 → **STRAFIX Wall Plug**
4 → **STRAFIX Fiber Supported Plastering Mortar - 1st Layer**
6 → **STRAFIX Corner Profile with Mesh**
5 → **STRAFIX Plaster Mesh**
4 → **STRAFIX Fiber Supported Plastering Mortar - 2nd Layer**
7 → **DECOPRIMER Decorative Plaster Primer**
8 → **STRAFIX Decorative Plaster**
Exterior Facade Paint

Standard Consumption Table

Product	m²/Consumption (EPS)
1- STRAFIX Adhesive Mortar	4 kg/m²
2- STRAFIX Thermal Insulation Board	1 m²
3- STRAFIX Wall Plug	6 pieces
4- STRAFIX Fiber Supported Plastering Mortar	5 kg/m²
5- STRAFIX Plaster Mesh	1.1 m²
6- STRAFIX Corner Profile with Mesh	0.25 mt
7- DECOPRIMER Decorative Plaster Primer	0.10 kg/m²
8- STRAFIX Decorative Plaster	2.7 kg/m²

Consumption rates are given for 1 m².
Please consult FİXA Construction Chemicals for further information.

CONCRETE and MORTAR ADMIXTURES

AQUAPLUS®

Waterproofing Mortar and Screed Admixture

Description:
Mortar and screed admixture that allows ease of application by increasing **water impermeability** and workability of **cement based plaster** and **floor** screeds.

Application Areas:
- Tunnels and channels,
- Water tanks,
- Indoor and outdoor plaster,
- Concrete blocks,
- Swimming pools,
- Floor compound.

Advantages:
- Increases water impermeability by entraining air and reducing the formation of capillary voids and water channels in the mortar and the plaster.
- Increases resistance of plaster against rain water and freeze-thaw cycles.
- Protects the plaster from weather conditions.
- Prevents capillary cracks and bubbles.
- Due to its plasticizing effect it decreases water amount of the mixture.
- Increases workability.
- Decreases the segregation and efflorescence effect observed in mortars without admixture.
- Economical, there is no need to use lime to provide workability or to increase volume in the plaster.

Consumption:
0.5 - 1 kg (for 50 kg of cement)

Packaging:
6 kg, 20 kg and 30 kg plastic jerrycans and 180 kg barrels

Technical Properties	
Appearance	: Yellow colored liquid
Liquid Density	: ~ 1.02 kg/L
pH	: 11 - 12 (20°C)
Viscosity	: ~ 20 seconds (20°C)
Amount of Chlorine and Nitrate	: None
Freezing Point	: < 0°C

AQUALATEX®

Mortar and Screed Admixture with Waterproofing and Bonding Properties

Description:
Multi-purpose liquid **synthetic rubber** emulsion with adhesive properties that enhances the **adhesion** and **water impermeability** of cement based mortars.

Application Areas:
- Concrete repairs,
- Plasters,
- Coatings resistant to abrasion,
- Increase adhesion between old and new concrete,
- Ceramic adhesive mortars,
- Places that require waterproofing,
- Prevent reinforcement corrosion,
- Sheet metal, zinc and PVC eaves, chimney flashings for waterproofing.

Advantages:
- Provides high performance water impermeability. Protects the reinforcement against corrosion.
- Generates an elastic covering on wide surfaces and increases the adhesion strength of mortar, plaster and screed, does not shrink and crack.
- Water vapor permeable, allows the surface to breathe.
- Resistant to many chemicals and mineral oils.
- Adheres perfectly.
- Non-toxic.
- More economical than epoxy or polyester resin mortars and reduces labor costs.
- Not effected by cold or hot weather or sunlight.
- Ready to use, can be diluted with water.

Consumption:
Volume ratios are given below:

Waterproofing	Aqualatex/Water : 1/3 - 1/4 Cement/Sand : 1/3
Concrete Repairs	Aqualatex/Water : 1/2 - 1/3 Cement/Sand : 1/2 - 1/3
Floor Compounds	Aqualatex/Water : 1/3 - 1/4 Cement/Sand : 1/3
Outdoor Plasters	Aqualatex/Water : 1/3 - 1/4 Cement/Sand : 1/3
Adherence Bridge and Bonding Primer	Aqualatex/Water : 1/1 Cement/Sand : 1/1

Packaging:
6 kg, 20 kg and 30 kg plastic jerrycans and 180 kg barrels

Technical Properties	
Appearance	: White colored liquid
Liquid Density	: ~ 1.01 kg/L (20°C)
pH	: 7 - 9 (20°C)
Time Between Layers	: 4 - 5 hours
Flexibility	: Very good

ANTIFREEZE 100

Concrete and Mortar Admixture for Anti-Freeze

Description:
Polynaphthalene sulfonate and **nitrate salt** based, chlorine-free concrete and mortar admixture which increases the fluidity and accelerates the setting of the concrete in weather conditions when the risk of frost is high and gives **resistance to the concrete against frost**.

Application Areas:
- Protection of the concrete against frost throughout the day in cold weather,
- Applications where early high resistance is required in cold weather,
- Protection of cement based indoor and outdoor plasters against frost,
- Sudden temperature decrease,
- When the molds are needed to be removed early,
- Floor compounds,
- Pouring of all kinds of concrete, with or without reinforcement,
- Pouring of precast and prefabricated concrete,
- Production of ready-mix concrete with or without pumps.

Advantages:
- Protects the concrete from frost when pouring the concrete in cold weather and gives it early resistance.
- Shortens the initial and final setting time of the concrete.
- Does not damage the reinforcement as it does not contain chlorine. Not corrosive. Can be used safely in reinforced concrete buildings.
- Provides the continuity of the construction work in cold weather, without any need to delay the concrete pouring.
- Ensures the homogenous distribution of the cement and sand particles in the concrete and the mortar and provides the hydration on a larger surface.

Consumption:
1 - 2.5 kg product is used for 100 kg binder (cement, fly ash, slag etc.). This amount can be increased up to 5 kg in very cold weather.

Packaging:
30 kg plastic jerrycans and 180 kg barrels

Technical Properties	
Appearance	: Brown colored liquid
Liquid Density	: 1.15 ± 0.05 kg/L (20°C)
pH	: 6 - 8 (20°C)
Chlorine Content	: < 0.1%
Freezing Point	: -10°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

MOLD RELEASE AGENTS and CURING COMPOUNDS

POLYFORM 100

Wooden Mold Release Agent

Description:
High quality, **ready-to-use mold release** agent for wooden molds that allows the mold to be separated easily from the concrete and contains a special emulsifier blend, provides a smooth and spotless surface.

Application Areas:
- Conventional wooden mold systems,
- All kinds of mold surfaces, especially absorbent ones.

Advantages:
- Ready to use, applied directly without diluting.
- Easy to apply.
- Allows the mold to be quickly dismantled.
- Reduces bubbles on the concrete surface, enables a smooth and spotless surface.
- Minimizes the need for cleaning in repeated uses of the molds. Reduces mold and labor costs significantly.
- Does not cause blocking in the spraying machine as it is highly fluid.
- Increase the efficieny and extends the life of the mold.
- Does not contain **solvent**.

Consumption:
Varies depending on the type of the mold, 1 L of POLYFORM 100 lubricates about 19 - 29 m^2 of mold surface when applied with a roller and 38 - 58 m^2 when sprayed with a pressurized pump.

Packaging:
30 L plastic jerrycans and 210 L barrels

Technical Properties	
Appearance	: Cream-white colored emulsion
Liquid Density	: 0.96 ± 0.02 kg/L (20°C)
Flash Point	: Not flammable
Application Temperature	: ≥ 5°C

POLYFORM 300

General Purpose Plywood, Wooden Mold Release Agent

Description:
Chemical emulsion based, **high quality**, **ready-to-use**, **general purpose** mold release agent that allows the mold to be separated easily from the concrete and contains a special emulsifier blend, provides a smooth and spotless surface.

Application Areas:
- All kinds of molds, such as plywood, plastic etc.
- Conventional wooden mold systems,
- Wooden mold systems with metal accessories,
- All kinds of mold surfaces, especially absorbent ones,
- Detailed concrete molds systems, with low temperature curing and large surface areas.

Advantages:
- For general use, can be used in various mold types.
- Ready to use, applied directly without diluting.
- Does not damage the film layer of the plywood molds.
- Easy to apply.
- Allows the mold to be quickly dismantled.
- Reduces bubbles on the concrete surface, enables a smooth and spotless surface.
- Minimizes the need for cleaning in repeated uses of the molds. Reduces mold and labor costs significantly.
- Does not cause blocking in the spraying machine as it is highly fluid.
- Increases the efficiency and extends the life of the mold.
- Does not contain **solvent**.

Consumption:
Varies depending on the type of the mold, 1 L of POLYFORM 300 lubricates about 19 - 28 m^2 of mold surface when applied with a roller and 37 - 56 m^2 when sprayed with a pressurized pump.

Packaging:
30 L plastic jerrycans and 210 L barrels

Technical Properties	
Appearance	: Cream-white colored emulsion
Liquid Density	: 0.93 ± 0.02 kg/L (20°C)
Flash Point	: Not flammable
Application Temperature	: ≥ 5°C

POLYFORM K

Concentrated Mold Release Agent

Description:
High quality, **concentrated** mold release agent that allows the mold to be separated easily from the concrete and contains a special emulsifier blend, provides a smooth and spotless surface.

Application Areas:
- Conventional wooden mold systems,
- All kinds of molds, such as plywood, plastic etc.
- Wooden mold systems with metal accessories,
- All kinds of mold surfaces, especially absorbent ones.

Advantages:
- Diluted with stated amount of water.
- Easy to apply.
- Does not damage the film layer of the plywood molds.
- Allows the mold to be quickly dismantled.
- Increases the efficiency and extends the life of the mold.
- Reduces bubbles on the concrete surface, enables a smooth and spotless surface.
- Minimizes the need for cleaning in repeated uses of the molds. Reduces mold and labor costs significantly.
- Does not cause blocking in the spraying machine as it is highly fluid.
- Does not contain **solvent**.

Consumption:
Varies depending on the type of the mold and dilution ratio, 1 L of POLYFORM K lubricates about 17 - 26 m^2 of mold surface when applied with a roller and 35 - 52 m^2 when sprayed with a pressurized pump.

Packaging:
30 L plastic jerrycans and 210 L barrels

Technical Properties	
Appearance	: Yellow colored liquid
Liquid Density (Undiluted)	: 0.86 ± 0.02 kg/L (20°C)
Flash Point	: Not flammable
Application Temperature	: ≥ 5°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

POLYFORM STEEL

Steel, Tunnel Mold Release Agent

Description:
High quality, **ready-to-use** mold release agent that allows the mold to be separated easily from the concrete by preventing the adhesion between the fresh concrete and the mold. **Resistant to steam cure**. Provides a smooth and spotless surface. Especially developed for effective results in large surface concrete molds.

Application Areas:
- Especially for tunnel-steel mold systems which are heated and applied steam curing,
- Smooth molds with low absorption,
- Plywood mold systems,
- Polyester mold systems,
- Precast and sliding mold surfaces,
- Large surface concrete molds with details.

Advantages:
- Avoids rust and prevents corrosion in steel molds.
- Ready to use, applied directly without diluting.
- Resistant to heat and steam curing.
- Provides perfect results in smooth molds with low absorption.
- Easy to apply.
- Allows the mold to be quickly dismantled.
- Reduces bubbles on the concrete surface, enables a smooth and spotless surface.
- Minimizes the need for cleaning in repeated uses of the molds. Reduces mold and labor costs significantly.
- Does not cause blocking in the spraying machine as it is highly fluid.
- Extends the life of the mold.
- Does not contain **solvent**.

Consumption:
Varies depending on the type of the mold, 1 L POLYFORM STEEL lubricates about 17 - 26 m^2 of mold surface when applied with a roller and 35 - 43 m^2 when sprayed with a pressurized pump.

Packaging:
30 L plastic jerrycans and 210 L barrels

Technical Properties	
Appearance	: Dark brown liquid
Liquid Density	: 0.86 ± 0.02 kg/L (20°C)
Kinematic Viscosity	: 15 - 20 cSt (+40°C)
Application Temperature	: ≥ 5°C

POLYFORM GREEN

Vegetable Oil-Based Mold Release Agent

Description:
Vegetable oil based, **environmentally friendly**, **high quality**, **ready-to-use** mold release agent that allows the mold to be separated easily from the concrete, **mineral oils free**, can be used in all kinds of mold systems, provides a smooth and spotless concrete surface.

Application Areas:
- All kinds of mold systems, such as wooden, plywood, plastic, steel etc.
- Precast, environmentally friendly projects and decorative concrete applications,
- White and colored concrete applications,
- Vertical and horizontal surfaces.

Advantages:
- Does not contain mineral oils, ecological.
- Ready to use, applied directly without diluting.
- Does not cause color variations on the concrete surface.
- Non-toxic or irritant.
- Conforms to the rules of environment and occupational health.
- Easy to apply.
- Allows the mold to be quickly dismantled.
- Appropriate for steam cure.
- Extends the life of the mold as it protects the mold against rust formation.
- Reduces bubbles on the concrete surface, enables a spotless and smooth surface.
- Minimizes the need for cleaning in repeated uses of the molds. Reduces mold and labor costs significantly.
- Does not cause blocking in the spraying machine as it is highly fluid.

Consumption:
Varies depending on the type of the mold, 1 L of POLYFORM GREEN lubricates about 20 - 30 m^2 of mold surface when applied with a roller and 40 - 55 m^2 when sprayed with a pressurized pump.

Packaging:
30 L plastic jerrycans and 210 L barrels

Technical Properties	
Appearance	: White colored emulsion
Liquid Density	: 0.98 ± 0.02 kg/L (20°C)
Flash Point	: Not flammable
Application Temperature	: ≥ 5°C

KURFIX® 200

Acrylic Based, Waterborne Curing Compound

Description:
Acrylic emulsion based, white colored and waterborne liquid **curing compound** that prevents quick loss of water from the concrete.

Application Areas:
- Indoor and outdoor,
- All vertical and horizontal concrete surfaces,
- Right after fresh concrete and surface hardener applications,
- Concrete applications where the air flow and evaporation is high and the moisture is low,
- Airport and concrete slabs,
- Concrete roads and bridges,
- Canals.

Advantages:
- Increases the resistance of concrete.
- Prevents shrinkage cracks on the concrete surface caused by fast drying during curing.
- Has water repellent property.
- More effective than other curing methods such as sack or canvas laying or watering.
- **Does not contain solvent**, is not flammable, safe to use indoor.
- Does not prevent resin and cement based applications on the cured surface.
- Easy to apply and labor-cost effective, economical.

Consumption:
200 - 300 g/m^2 (Varies depending on the absorption and roughness of the concrete surface.)

Packaging:
30 kg plastic jerrycans and 180 kg barrels

Technical Properties	
Appearance	: White colored liquid
Appearance After the App.	: Light opaque transparent layer
Liquid Density	: ~ 1.07 kg/L (20°C)
Drying Time	: 2 hours (ASTM C 309)
Flash Point	: Not flammable

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

KURFIX® 300

Solvent Based Curing Compound

Description:
Transparent amber-yellow, **hydrocarbon resin** based, solventborne liquid **curing compound** that prevents quick loss of water from the concrete, forms a film layer which reduces shrinkage cracks on the surface by preventing the water inside the fresh concrete from evaporating.

Application Areas:
- Indoor and outdoor,
- All vertical and horizontal concrete surfaces,
- Right after fresh concrete and surface hardener applications,
- Concrete applications where the air flow and evaporation is high and the moisture is low,
- Surfaces which will later be covered with paint, ceramics, epoxy etc.
- Airport and concrete slabs,
- Concrete roads and bridges,
- Canals and dams,
- Retaining walls.

Advantages:
- Increases the resistance of concrete.
- Prevents shrinkage cracks resulting from fast drying while concrete surface is cured.
- Has water repellent property.
- More effective than other curing methods such as sack or canvas laying or watering.
- Provides more effective curing than the paraffin and acrylic based curing compounds.

Consumption:
150 - 180 g/m^2 (Varies depending on the absorption and roughness of the concrete surface.)

Packaging:
15 kg tin cans, 30 kg plastic jerrycans and 180 kg barrels

Technical Properties	
Appearance	: Transparent amber-yellow colored liquid
Appearance After the App.	: Smooth, transparent film
Liquid Density	: ~ 0.90 kg/L (20°C)
Drying Time	: 40 minutes (ASTM C 309)
Flash Point	: +80°C

KURFIX® 400

Solvent Based Curing Compound and Surface Protector

Description:
Transparent yellow color, **hydrocarbon solvents** and **acrylic resin** based, solvenborne liquid **curing compound** and **surface protector** which prevents quick loss of water. Generates a protective layer and reduces the abrasion by penetrating the capillary structure of the surface. Forms a film layer which reduces shrinkage cracks on the surface by preventing the water inside the fresh concrete from evaporating. Reduces surface abrasion by binding the particles on the surface stronger to each other.

Application Areas:
- Indoor and outdoor,
- All vertical and horizontal concrete surfaces,
- Concrete, brick, stone and plaster coated wall surfaces,
- Wooden, terracotta, concrete and screed floors indoor,
- Right after fresh concrete and surface hardener applications for curing purposes,
- Concrete applications where the air flow and evaporation is high and the moisture is low,
- Surfaces which will later be covered with paint, ceramics, epoxy etc.
- Airport and concrete slabs,
- Concrete roads and bridges,
- Canals and dams,
- Retaining walls,
- Terraces.

Advantages:
As Curing Material:
- Increases the resistance of the concrete.
- Prevents shrinkage cracks resulting from fast drying while concrete surface is cured.
- More effective than other curing methods such as sack or canvas laying or watering.
- Provides more effective curing than the paraffin and acrylic based curing compounds.
- Compatible to cement, epoxy and polyurethane coatings.

As Surface Protector:
- Generates a harder and dust free surface that is resistant to abrasion, by binding particles to each other.
- Protects the surface against moisture and provides resistance to oil, light acids and chemicals.
- Has water repellent property.
- Protects plaster againts cracks formed due to frost by avoiding water inflow.
- Protects porous surfaces against dirt and dusting. Allows ease of maintenance.
- Penetrates fresh concrete, does not form layers thus does not peel off and allows the surface to breathe.

Consumption:
170 - 250 g/m^2 (Varies depending on the absorption and roughness of the concrete surface.)

Packaging:
14 kg tin cans and 165 kg barrels

Technical Properties	
Appearance	: Transparent yellow colored liquid
Appearance After the App.	: Smooth, transparent layer
Liquid Density	: ~ 0.85 kg/L (20°C)
Drying Time	: 2 - 4 hours (ASTM C 309)
Flash Point	: + 80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

CEMENT BASED PLASTERS and BONDING MORTARS

BETOPRIMER®

Primer for Exposed Concrete Surfaces

Description:
Acrylic polymer based, single component **plaster primer** with quartz granular for exposed concrete surfaces to increase the adherence of the surface and workability time, applied before cement or gypsum based plasters.

Application Areas:
- Indoor and outdoor,
- Horizontal - vertical applications and ceilings,
- To increase adherence on exposed concrete surfaces, prior to application of cement or gypsum based plaster mortars,
- To protect water absorbent surfaces such as gypsum-plaster, gypsum board, gas concrete, chipboard, briquette from moisture,
- To increase adherence prior to plaster application on ceilings,
- To increase adherence before applications on old surfaces.

Advantages:
- Waterborne, odorless and safe to use indoor.
- Provides high adherence.
- Increases workability and working time on cement and gypsum based plasters.
- Prevents the mortar to lose its water fast when applied prior to cement and gypsum based coatings on absorbent surfaces.
- Provides resistance to moisture.
- Colored and easy to apply.

Consumption:
150 - 250 g/m^2 (Varies depending on the absorption and roughness of the application surface.)

Packaging:
12 kg plastic buckets

Technical Properties	
Appearance	: Green colored acrylic dispersion
Density (Undiluted)	: 1.55 ± 0.05 kg/L
Dilution Ratio with Water	: 4 - 6 L water / 12 kg product
Application Temperature	: Between +5°C and +35°C
Drying Time	: 60 - 90 minutes
Application Thickness	: Minimum 0.15 mm / Maximum 0.30 mm
Curing Time	: ~ 24 hours
Service Temperature	: Between -20°C and +80°C

PRIMEX®

Primer for Exposed Concrete and Gypsum Based Plaster

Description:
Acrylic polymer based, single component, **economical plaster primer** with quartz granular for exposed concrete surfaces to increase the adherence of the surface and workability time, applied before cement or gypsum based plasters.

Application Areas:
- Indoor and outdoor,
- Horizontal - vertical applications and ceilings,
- To increase adherence on exposed concrete surfaces, prior to application of cement or gypsum based plaster mortars,
- To protect water absorbent surfaces such as gypsum-plaster, gypsum board, gas concrete, chipboard, briquette from moisture,
- To increase adherence prior to plaster application on ceilings,
- To increase adherence before applications on old surfaces.

Advantages:
- Waterborne, odorless and safe to use indoor.
- Economical.
- Provides high adherence.
- Increases workability and working time on cement and gypsum based plasters.
- Prevents the mortar to lose its water when applied prior to cement and gypsum based coatings on absorbent surfaces.
- Provides resistance to moisture.
- Colored and easy to apply.

Consumption:
150 - 250 g/m^2 (Varies depending on the absorption and roughness of the concrete surface.)

Packaging:
12 kg and 15 kg plastic buckets

Technical Properties	
Appearance	: Dusty rose - pink colored acrylic dispersion
Density (Undiluted)	: 1.55 ± 0.05 kg/L
Dilution Ratio with Water	: 3 L water / 15 kg product
Application Temperature	: Between +5°C and +35°C
Drying Time	: 60 - 90 minutes
Application Thickness	: Minimum 0.15 mm / Maximum 0.50 mm
Curing Time	: ~ 24 hours
Service Temperature	: Between -20°C and +80°C

PERFIX®

Insulation Plaster with Perlite (White)

Description:
White cement based insulation plaster **with perlite** and developed with thermal and sound insulation properties, made with special particle-sized fillers and performance increasing chemicals.

Application Areas:
- Indoor and outdoor,
- Ceilings and vertical surfaces,
- Surfaces such as coarse plaster, gas concrete, brick, pumice and briquette,
- Plastering the load bearing system components such as columns, beams, shear walls.

Advantages:
- Integrates with the surface easily since it is cement based.
- Preferred to gypsum because of its high resistance to cracking, especially on surfaces such as gas concrete
- Can be used on ceilings and vertical surfaces since it displays thixotropic behavior.
- Supports sound and thermal insulation due to its perlite content.
- Its light weight reduces the dead load of the structure.
- Can be used on exposed concrete before gypsum application in order to protect the reinforcement against corrosion.
- Recommended for imperfect surfaces on which plaster application is required.
- Provides high adherence.
- Water vapor permeable, allows the surface to breathe.
- Fire resistant.

Consumption:
13 kg/m^2 for 1 cm thickness (Varies depending on the application surface.)

Packaging:
35 kg kraft bags

Technical Properties	
Appearance	: White colored powder
Powder Density	: ~ 1.30 kg/L
Water Mixing Ratio	: 8.5 - 9.5 L water / 35 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 1.5 - 2 hours
Application Temperature	: Between +5°C and +35°C
Application Thickness	: Minimum 1 cm / Maximum 3 cm
Reaction to Fire	: A1 (EN 13501-1)
Capillary Water Absorption	: W1; C ≤ 0.40 kg/(m^2.min$^{0.5}$) (EN 1015-18)
Water Vapor Perm.Coef. (μ)	: ≤ 25 (EN 1015-19)
Heat Conductivity Coef. (λ)	: 0.26 W/mK
Complete Drying Time	: 12 - 24 hours
Service Temperature	: Between -20°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

FİXA®
Ready-Mixed Hand Plaster (Coarse)

Description:
Cement based, single component, ready-mixed **coarse** plaster with chemical and fiber additives, applied **manually**.

Application Areas:
- Indoor and outdoor,
- Wall and ceiling,
- Surfaces such as brick, gas concrete, concrete, exposed concrete, pumice and briquette.

Advantages:
- Saves time and labor.
- Adheres strongly to the surface, does not fall off or sag.
- Does not crack due to its fiber content.
- Has higher quality consistency than plain plasters as a plant-manufactured mortar.
- More resistant to outdoor conditions compared to plain plasters.
- Recommended for imperfect surfaces on which plaster application is required.

Consumption:
14 - 16 kg/m^2 (for 1 cm thickness)

Packaging:
40 kg kraft bags

Technical Properties	
Appearance	: Grey colored granule
Powder Density	: ~ 1.55 kg/L
Water Mixing Ratio	: 6.4 - 7.2 L water / 40 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2 - 3 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS III; 3.5 - 7.5 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.2 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W1; C ≤ 0.40 kg/(m^2.min$^{0.5}$) (EN 1015-18)
Water Vapor Perm.Coef. (μ)	: ≤ 25 (EN 1015-19)
Application Thickness	: 1 - 3 cm
Time to Use	: 24 hours
Service Temperature	: Between -20°C and +70°C

FİXA®
Ready-Mixed Hand Plaster (Coarse) White

Description:
White cement based, single component, ready-mixed **coarse** plaster with chemical and fiber additives, applied **manually**.

Application Areas:
- Indoor and outdoor,
- Wall and ceiling,
- Surfaces such as brick, gas concrete, concrete, exposed concrete, pumice and briquette.

Advantages:
- Can be used without painting due to its white color.
- Gives the building a better look.
- Reduces paint consumption.
- Saves time and labor.
- Adheres strongly to the surface, does not fall off or sag.
- Does not crack due to its fiber content.
- Has higher quality consistency than plain plasters as a plant-manufactured mortar.
- More resistant to outdoor conditions compared to plain plasters.
- Recommended for imperfect surfaces on which plaster application is required.

Consumption:
14 - 16 kg/m^2 (for 1 cm thickness)

Packaging:
40 kg kraft bags

Technical Properties	
Appearance	: White colored granule
Powder Density	: ~ 1.55 kg/L
Water Mixing Ratio	: 6.4 - 7.2 L water / 40 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2 - 2.5 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS III; 3.5 - 7.5 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.2 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W1; C ≤ 0.40 kg/(m^2.min$^{0.5}$) (EN 1015-18)
Water Vapor Perm.Coef. (μ)	: ≤ 25 (EN 1015-19)
Application Thickness	: 1 - 3 cm
Time to Use	: 24 hours
Service Temperature	: Between -20°C and +70°C

FİXA®
Ready-Mixed Machine Applied Plaster (Coarse)

Description:
Cement based, single component, ready mixed **coarse** plaster with chemical and fiber additives, applied **by machine** or manually.

Application Areas:
- Indoor and outdoor,
- Wall and ceiling,
- Surfaces such as brick, gas concrete, concrete, exposed concrete, pumice and briquette.

Advantages:
- Adheres strongly to the surface, does not fall off or sag.
- Can be applied both by machine and manually, practical.
- Saves time and labor as it is applied fast by machine.
- Reduces wear of augers when applied by machine, does not cause blockage.
- Does not crack due to its fiber content.
- Enables a homogenous finish as it is easy to spread over the surface and fills the gaps on the surface.
- Has higher quality consistency than plain plasters as a plant-manufactured mortar.
- More resistant to outdoor conditions compared to plain plasters.
- Recommended for imperfect surfaces on which plaster application is required.

Consumption:
13 - 15 kg/m^2 (for 1 cm thickness)

Packaging:
40 kg kraft bags

Technical Properties	
Appearance	: Grey colored granule
Powder Density	: ~ 1.50 kg/L
Water Mixing Ratio	: 7.2 - 8 L water / 40 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2 - 3 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS III; 3.5 - 7.5 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.2 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W1; C ≤ 0.40 kg/(m^2.min$^{0.5}$) (EN 1015-18)
Water Vapor Perm.Coef. (μ)	: ≤ 25 (EN 1015-19)
Application Thickness	: 1 - 3 cm
Time to Use	: 24 hours
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

FİXA®

Ready-Mixed Machine Applied Plaster (Coarse) White

Description:
White cement based, single component, ready mixed **coarse** plaster with chemical and fiber additives, applied **by machine** or manually.

Application Areas:
- Indoor and outdoor,
- Wall and ceiling,
- Surfaces such as brick, gas concrete, concrete, exposed concrete, pumice and briquette.

Advantages:
- Adheres strongly to the surface, does not fall off or sag.
- Can be applied both by machine and manually, practical.
- Saves time and labor as it is applied fast by machine.
- Reduces wear of augers when applied by machine, does not cause blockage.
- Does not crack due to its fiber content.
- Enables a homogenous finish as it is easy to spread over the surface and fills the gaps on the surface.
- Has higher quality consistency than plain plasters as a plant-manufactured mortar.
- More resistant to outdoor conditions compared to plain plasters.
- Recommended for imperfect surfaces on which plaster application is required.

Consumption:
13 - 15 kg/m^2 (for 1 mm thickness)

Packaging:
40 kg kraft bags

Technical Properties	
Appearance	: White colored granule
Powder Density	: ~ 1.50 kg/L
Water Mixing Ratio	: 7.2 - 8 L water / 40 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2 - 3 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS III; 3.5 - 7.5 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.2 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W1; C ≤ 0.40 kg/(m^2.min$^{0.5}$) (EN 1015-18)
Water Vapor Perm.Coef. (μ)	: ≤ 25 (EN 1015-19)
Application Thickness	: 1 - 3 cm
Time to Use	: 24 hours
Service Temperature	: Between -20°C and +70°C

FİXA®

Ready-Mixed Hand Plaster (Fine)

Description:
Cement based, single component, ready-mixed **fine** plaster with chemical additives, applied manually or by **machine**.

Application Areas:
- Indoor and outdoor,
- Wall and ceiling,
- To obtain a flat surface prior to paint and decorative coatings on surfaces such as coarse plaster, concrete and exposed concrete.

Advantages:
- Provides a smooth surface.
- Saves time and labor.
- Adheres strongly to the surface, does not fall off or sag.
- Easily and quickly applied both manually or by machine.
- Has higher quality consistency than plain plasters as a plant-manufactured mortar.
- More resistant to outdoor conditions compared to plain plasters.

Consumption:
1.4 - 1.7 kg/m^2 (for 1 mm thickness)

Packaging:
40 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.40 kg/L
Water Mixing Ratio	: 8.8 - 10.4 L water / 40 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2 - 3 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS IV; ≥ 6 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 1 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W1; C ≤ 0.40 kg/(m^2.min$^{0.5}$) (EN 1015-18)
Water Vapor Perm.Coef. (μ)	: ≤ 25 (EN 1015-19)
Application Thickness	: 2 - 6 mm
Time to Use	: 24 hours
Service Temperature	: Between -20°C and +70°C

FİXA®

Ready-Mixed Hand Plaster (Fine) White

Description:
White cement based, single component, ready-mixed **fine** plaster with chemical additives, applied manually or by **machine**.

Application Areas:
- Indoor and outdoor,
- Wall and ceiling,
- To obtain a flat surface prior to paint and decorative coatings on surfaces such as coarse plaster, concrete and exposed concrete.

Advantages:
- Provides a smooth surface.
- Can be used without painting due to its white color.
- Gives the building a better look.
- Reduces paint consumption.
- Saves time and labor.
- Adheres strongly to the surface, does not fall off or sag.
- Easily and quickly applied both manually and by machine.
- Has higher quality consistency than plain plasters as a plant-manufactured mortar.
- More resistant to outdoor conditions compared to plain plasters.

Consumption:
1.4 - 1.7 kg/m^2 (for 1 mm thickness)

Packaging:
40 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.40 kg/L
Water Mixing Ratio	: 8.8 - 10.4 L water / 40 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2 - 3 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS IV; ≥ 6 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.40 N/mm^2 (EN 1015-12)
Capillary Water Absorption	: W1; C ≤ 0.40 kg/(m^2.min$^{0.5}$) (EN 1015-18)
Water Vapor Perm.Coef. (μ)	: ≤ 25 (EN 1015-19)
Application Thickness	: 2 - 6 mm
Time to Use	: 24 hours
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

FİXA®
Cement Based Thin Satin Putty (White)

Description:
White cement based, single component, **fine satin finish putty** with chemical additives which covers all surface imperfections and prepares the surface to paint.

Application Areas:
- Indoor and outdoor,
- Wall and ceiling,
- Coarse plaster, fine plaster and concrete surfaces,
- Repairing fine cracks on the surface,
- As the top coat fine finishing plaster in order to have a smooth surface before painting.

Advantages:
- Provides a smooth surface.
- Does not crack since it has higher adherence and durability compared to gypsum and gypsum based materials.
- Can be used without painting due to its white color.
- Aesthetic and decorative, gives the building a better look.
- Reduces paint consumption.
- Covers the imperfections on the surface.
- Does not deteriorate after curing when it gets in contact with water since it is resistant to water and moisture.

Consumption:
Appr. 1 kg/m^2 (for 1 mm thickness)

Packaging:
20 kg kraft bag

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1 kg/L
Water Mixing Ratio	: 7 - 8 L water / 20 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2 - 3 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: CS III; 3,5 - 7,5 N/mm^2 (EN 1015-11)
Adhesion Strength	: ≥ 0.4 N/mm^2 (EN 1015-12)
Application Thickness	: 1 - 3 mm
Time to Use	: 24 hours
Service Temperature	: Between -20°C and +70°C

FİXA®
Roof Ridge Adhesive Mortar

Description:
Cement based, single component, high performance adhesive mortar with chemical additives and high stability in **assembling roof ridges**.

Application Areas:
- Outdoor,
- Horizontal and vertical surfaces,
- Assembling and bonding of roof ridges,
- Bonding of red-colored rain gutters on the building.

Advantages:
- Decorative with its red or anthracite color.
- Does not crack due to its fiber content.
- Provides strong bonding.
- Resistant to water and frost and is not affected by changes in temperature.
- Provides high stability and does not sag in vertical applications.

Consumption:
600 g/1 piece of ridge

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Red or anthracite colored coarse powder
Powder Density	: ~ 1.55 kg/L
Water Mixing Ratio	: 4.5 - 5.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2.5 - 3 hours
Application Temperature	: Between +5°C and +35°C
Shear Strength	: 0.3 N/mm^2 (TS EN 998-2 EK C-EN 771)
Walk on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

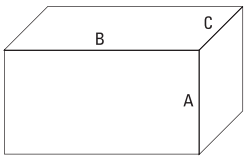
FİXA®
Gas Concrete Bonding Mortar

Description:
Cement based, high performance, single component **gas concrete** bonding mortar with chemical additives.

Application Areas:
- Indoor and outdoor,
- Bonding of construction elements with high water absorption, such as gas concrete and brick.

Advantages:
- Easy to apply.
- Resistant to water and frost.
- Respond to the water absorption characteristics of the gas concrete and does not dry quickly.

Consumption:



A (cm)	B (cm)	C (cm)	Consumption kg/m^2
20	50	20	5 - 7
20	70	20	5 - 7
30	50	15	3 - 5
30	70	15	4 - 5
30	50	20	4 - 6
30	70	20	4 - 6

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 7.5 - 8 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 2.5 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: M10; ≥ 10 N/mm^2 28 days (EN 1015-11)
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

FİXA®

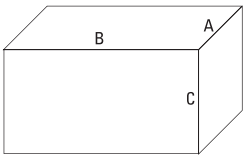
Pumice - Brick Bonding Mortar

Description:
Cement based, single component, polymer added adhesive mortar with high adhesion properties for **pumice** and **brick**.

Application Areas:
- Indoor and outdoor,
- Masonry works with pumice blocks, concrete blocks and bricks.

Advantages:
- Saves material, labor and time compared to traditional mortars.
- Prevents thermal bridge formation with thin joint application.
- Provides long working time.
- Has easy mixing and workability properties.
- Provides advantages in both horizontal and vertical applications.

Consumption:



A (cm)	B (cm)	C (cm)	Consumption kg/m²
9	39	24	5.5 - 7.5
14	49	24	6.5 - 8.5
19	49	24	7.5 - 9.5
24	49	24	11.5 - 13.5
9	39	19	4.5 - 6.5

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored granule
Powder Density	: ~ 1.55 kg/L
Water Mixing Ratio	: 4 - 5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 3 hours
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 10 N/mm² M10 (EN 1015-11)
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

TILE and CERAMIC ADHESIVES

FİXA®

Extra Tile and Ceramic Adhesive Mortar C1TE

Description:
Cement based, single component, polymer added, extra featured powder adhesive mortar with **reduced slip** and **long working time**, used for bonding of tiles and ceramics.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of small and medium-sized floor and wall ceramics and similar materials with more than 3% water absorption rate.

Advantages:
- Easy to apply.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied ceramics.
- Resistant to water and frost.
- Provides high stability and does not sag in vertical applications.

Consumption:
3.5 - 4 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 6 - 7 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2.5 - 3 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 0.5 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -20°C and +70°C

FİXA®

Extra Tile and Ceramic Adhesive Mortar C1TE (White)

Description:
White cement based, single component, polymer added, extra featured powder adhesive mortar with **reduced slip** and **long working time**, used for bonding of tiles and ceramics.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of small and medium-sized floor and wall ceramics, mosaic and similar materials with more than 3% water absorption rate.

Advantages:
- Easy to apply.
- Decorative due to its white color.
- Enables to start the tile grout application quickly as it is the same color as the white tile grout.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied ceramics.
- Resistant to water and frost.
- Provides high stability and does not sag in vertical applications.

Consumption:
3.5 - 4 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 6 - 7 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2 - 2.5 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 0.5 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -20°C and +70°C

FİXA® FLEXUP

Tile and Ceramic Adhesive Mortar C1TE

Description:
Cement based, single component, polymer added, high performance powder adhesive mortar with **reduced slip** and **long working time**, used for bonding of covering materials such as granite and ceramics.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of covering materials such as medium and large-sized floor and wall ceramics, granite, granite ceramics, marble, clinker, mosaics, decorative brick, natural stone, travertine on concrete, plaster and screed surfaces in wet areas such as bathrooms and kitchens.

Advantages:
- Saves labor and time with its long workability time.
- Has high adhesion strength.
- Allows sufficient time to adjust applied ceramics.
- Spread to the surface and combed easily with a trowel. Minimizes applicator fatigue.
- Resistant to water and frost.
- Provides high stability and does not sag in vertical applications.
- Allows working with various coating materials in different sizes.
- Covers large areas with less material and gives less load to the structure.

Consumption:
3 - 4 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 7 - 7.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 6 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 0.5 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

FİXA® FLEXUP

Tile and Ceramic Adhesive Mortar C1TE (White)

Description:
White cement based, single component, polymer added, high performance powder adhesive mortar with **reduced slip** and **long working time**, used for bonding of covering materials such as granite and ceramics.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of covering materials such as medium and large-sized floor and wall ceramics, granite, granite ceramics, marble, clinker, mosaics, decorative brick, natural stone, travertine on concrete, plaster and screed surfaces in wet areas such as bathrooms and kitchens.

Advantages:
- Decorative due to its white color.
- Enables to start the tile grout application quickly as it is the same color as the white tile grout.
- Saves labor and time with its long workability time.
- Has high adhesion strength.
- Allows sufficient time to adjust applied ceramics.
- Spread to the surface and combed easily with a trowel. Minimizes applicator fatigue.
- Resistant to water and frost.
- Provides high stability and does not sag in vertical applications.
- Allows working with various coating materials in different sizes.
- Covers large areas with less material and gives less load to the structure.

Consumption:
3 - 4 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 7 - 7.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 5 - 6 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 0.5 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -20°C and +70°C

FİXA®

Tile and Ceramic Adhesive Mortar C1T

Description:
Cement based, single component powder adhesive mortar with **reduced slip**, used for bonding of tiles and ceramics.

Application Areas:
- Indoor,
- Horizontal and vertical surfaces,
- Bonding of small and medium-sized floor and wall ceramics with more than 3% water absorption rate,
- Covering materials with a maximum size of 33 x 33 cm.

Advantages:
- Easy to apply.
- Economical.
- Does not sag in vertical applications.

Consumption:
3.5 - 4 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 2 hours
Open Time Tensile Adhesion Strength	: After min. 20 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 0.5 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -20°C and +70°C

FİXA®

Tile and Ceramic Adhesive Mortar C1T (White)

Description:
White cement based, single component powder adhesive mortar with **reduced slip**, used for bonding of tiles and ceramics.

Application Areas:
- Indoor,
- Horizontal and vertical surfaces,
- Bonding of small and medium-sized floor and wall ceramics with more than 3% water absorption rate,
- Covering materials with a maximum size of 33 x 33 cm.

Advantages:
- Easy to apply.
- Economical.
- Decorative due to its white color.
- Enables to start the tile grout application quickly as it is the same color as the white tile grout.
- Does not sag in vertical applications.

Consumption:
3.5 - 4 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 1.5 hours
Open Time Tensile Adhesion Strength	: After min. 20 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 0.5 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -20°C and +70°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

PROX® 910

Tile and Ceramic Adhesive Mortar C1T

Description:
Cement based, single component powder mortar for bonding of tiles and ceramics.

Application Areas:
- Indoor,
- Horizontal and vertical surfaces,
- Bonding of small and medium-sized floor and wall ceramics with more than 3% water absorption rate,
- Covering materials with a maximum size of 33 x 33 cm.

Advantages:
- Easy to apply.
- Economical.
- Does not sag in vertical applications.

Consumption:
3.5 - 4 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6 L water / 25 kg powder
Resting Period	: ~ 5 minutes
Pot Life	: 1.5 - 2 hours
Open Time Tensile Adhesion Strength	: After min. 20 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 0.5 N/mm^2 28 days (EN 1348)
Walk-on Time	: 24 hours
Service Temperature	: Between -20°C and +70°C

PROX® 911

Tile and Ceramic Adhesive Mortar C1T (White)

Description:
White cement based, single component powder mortar for bonding of tiles and ceramics.

Application Areas:
- Indoor,
- Horizontal and vertical surfaces,
- Bonding of small and medium-sized floor and wall ceramics with more than 3% water absorption rate,
- Covering materials with a maximum size of 33 x 33 cm.

Advantages:
- Easy to apply.
- Economical.
- Decorative due to its white color.
- Enables to start the tile grout application quickly as it is the same color as the white tile grout.
- Does not sag in vertical applications.

Consumption:
3.5 - 4 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6 L water / 25 kg powder
Resting Period	: ~ 5 minutes
Pot Life	: ~ 1.5 hours
Open Time Tensile Adhesion Strength	: After min. 20 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 0.5 N/mm^2 28 days (EN 1348)
Walk-on Time	: 24 hours
Service Temperature	: Between -20°C and +70°C

FİXA®

Fast Setting Tile and Ceramic Adhesive Mortar C1FT

Description:
Cement based, single component, polymer added, **fast setting**, high performance and stability powder adhesive mortar **with reduced slip**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Places required to be ready for use within 24 hours,
- Bonding of small and medium-sized floor and wall ceramics and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic such as work places, shopping malls, schools and hospitals,
- Floor heating systems,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Sets fast and gains its strength in 6 hours, allows tile grouting in 3 - 4 hours.
- Provides strong adhesion.
- Resistant to water and frost and is not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 6.5 - 6.75 L water / 25 kg powder
Resting Period	: 2 - 3 minutes
Pot Life	: 25 - 30 minutes
Application Temperature	: Between +5°C and +35°C
Early Tensile Adhesion Strength	: After 6 hours ≥ 0.5 N/mm^2 (EN 1348)
Open Time Tensile Adhesion Strength	: After min. 10 minutes ≥ 0.5 N/mm^2 (EN 1346)
Tensile Adhesion Strength	: ≥ 0.5 N/mm^2 (28 days) (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 6 hours
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

FİXA®

Fast Setting Tile and Ceramic Adhesive Mortar C1FT (White)

Description:
White cement based, single component, polymer added, **fast setting**, high performance and stability powder adhesive mortar **with reduced slip**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Places required to be ready for use within 24 hours,
- Bonding of small and medium-sized floor and wall ceramics and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic such as work places, shopping malls, schools and hospitals,
- Floor heating systems,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Sets fast and gains its strength in 6 hours, allows tile grouting in 3 - 4 hours.
- Decorative due to its white color.
- Since it is the same color as the white joint, the joint application can be started in a shorter time.
- Provides strong adhesion.
- Resistant to water and frost and is not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 6.75 - 7 L water / 25 kg powder
Resting Period	: 2 - 3 minutes
Pot Life	: 25 - 30 minutes
Application Temperature	: Between +5°C and +35°C
Early Tensile Adhesion Strength	: After 6 hours ≥ 0.5 N/mm^2 (EN 1348)
Open Time Tensile Adhesion Strength	: After min. 10 minutes ≥ 0.5 N/mm^2 (EN 1346)
Tensile Adhesion Strength	: ≥ 0.5 N/mm^2 (28 days) (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 6 hours
Service Temperature	: Between -30°C and +80°C

FİXA®

Granite Ceramic Adhesive Mortar C2T

Description:
Cement based, single component, polymer added, **flexible**, high performance and stability powder adhesive mortar **with reduced slip**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramic, granite, granite ceramic, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic such as work places, shopping malls, schools and hospitals,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Flexible and provides strong bonding.
- Resistant to water and frost and is not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 2.5 hours
Open Time Tensile Adhesion Strength	: After min. 20 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

FİXA®

Granite Ceramic Adhesive Mortar C2T (White)

Description:
White cement based, single component, polymer added, **flexible**, high performance and stability powder adhesive mortar **with reduced slip**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramic, granite, granite ceramic, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic such as work places, shopping malls, schools and hospitals,
- Bonding of ceramics on old granite and marble surfaces.
- Bonding of glass mosaics.

Advantages:
- Decorative due to its white color.
- Since it is the same color as the white joint, the joint application can be started in a shorter time.
- Flexible and provides strong adhesion.
- Resistant to water and frost and is not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 2 hours
Open Time Tensile Adhesion Strength	: After min. 20 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

FİXA® FLEX
Granite Ceramic Adhesive Mortar
C2TE

Description:
Cement based, single component, polymer added, **very flexible**, high performance and stability powder adhesive mortar with **reduced slip** and **long working time**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramics, granite, granite ceramic, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic, such as work places, shopping malls, schools and hospitals,
- Floor heating systems,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Very flexible and provides strong bonding.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied granite ceramics.
- Resistant to water and frost and is not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 2.5 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

FİXA® FLEX
Granite Ceramic Adhesive Mortar
C2TE (White)

Description:
White cement based, single component, polymer added, **very flexible**, high performance and stability powder adhesive mortar with **reduced slip** and **long working time**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramics, granite, granite ceramic, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic, such as work places, shopping malls, schools and hospitals,
- Floor heating systems,
- Bonding of ceramics on old granite and marble surfaces,
- Bonding of glass mosaics.

Advantages:
- Decorative due to its white color.
- Since it is the same color as the white joint, the joint application can be started in a shorter time.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied granite ceramics.
- Very flexible and provides strong bonding.
- Resistant to water and frost and is not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 2 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

PROX® 950
FLEX Granite Ceramic Adhesive Mortar
C2TE

Description:
Cement based, single component, polymer added, **flexible**, high performance and stability powder adhesive mortar with **reduced slip** and **long working time**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramics, granite, granite ceramic, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic, such as work places, shopping malls, schools and hospitals,
- Floor heating systems,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Flexible and provides strong bonding.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied granite ceramics.
- Resistant to water and frost and is not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 2.5 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

PROX® 951

FLEX Granite Ceramic Adhesive Mortar C2TE (White)

Description:
White cement based, single component, polymer added, **flexible**, high performance and stability powder adhesive mortar with **reduced slip** and **long working time**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramics, granite, granite ceramic, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic, such as work places, shopping malls, schools and hospitals,
- Floor heating systems,
- Bonding of ceramics on old granite and marble surfaces,
- Bonding of glass mosaics.

Advantages:
- Decorative due to its white color.
- Since it is the same color as the white joint, the joint application can be started in a shorter time.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied granite ceramics.
- Flexible and provides strong bonding.
- Resistant to water and frost and is not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 2 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

HIGHFLEX®

Granite Ceramic Adhesive Mortar C2TES1

Description:
Cement based, single component, polymer added, **S1 class very flexible**, high performance and stability powder adhesive mortar with **reduced slip** and **long working time**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramics, granite, granite ceramic, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic, such as work places, shopping malls, schools and hospitals,
- Places exposed to temperature changes, such as cold storage depots, flash freezing facilities and floor heating systems,
- Places exposed to water and outdoor weather conditions, such as pools, water tanks, terraces and balconies,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Very flexible and provides strong bonding.
- Has transverse deformation property.
- Resistant to water and frost and to the tensions on the surface that are caused by sudden temperature changes.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied granite ceramics.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.35 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2.5 - 3 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Transverse Deformation	: ≥ 2.5 mm and < 5 mm (EN 12002)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

HIGHFLEX®

Granite Ceramic Adhesive Mortar C2TES1 (White)

Description:
White cement based, single component, polymer added, **S1 class very flexible**, high performance and stability powder adhesive mortar with **reduced slip** and **long working time**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramics, granite, granite ceramic, marble, clinker, glass mosaic and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic, such as work places, shopping malls, schools and hospitals,
- Places exposed to temperature changes, such as cold storage depots, flash freezing facilities and floor heating systems,
- Places exposed to water and outdoor weather conditions, such as pools, water tanks, terraces and balconies,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Decorative due to its white color.
- Since it is the same color as the white joint, the joint application can be started in a shorter time.
- Very flexible and provides strong bonding.
- Has transverse deformation property.
- Resistant to water and frost and to the tensions on the surface that are caused by sudden temperature changes.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied granite ceramics.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.35 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2 - 2.5 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Transverse Deformation	: ≥ 2.5 mm and < 5 mm (EN 12002)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

HIGHFLEX® PRO

Granite Ceramic Adhesive Mortar
C2TES2

Description:
Cement based, single component, polymer added, **S2 class very flexible**, high performance and stability powder adhesive mortar with **reduced slip** and **long working time**, with superior qualities.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramics, granite, granite ceramic, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic, such as work places, shopping malls, schools and hospitals,
- Places exposed to temperature changes, such as cold storage depots, flash freezing facilities and floor heating systems,
- Places exposed to water and outdoor weather conditions, such as pools, water tanks, terraces and balconies,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Very flexible and provides strong adhesion.
- Has transverse deformation property.
- Resistant to water and frost and to the tensions on the surface that are caused by sudden temperature changes.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied granite ceramics.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.35 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2.5 - 3 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Transverse Deformation	: ≥ 5 mm (EN 12002)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

HIGHFLEX® PRO

Granite Ceramic Adhesive Mortar
C2TES2 (White)

Description:
White cement based, single component, polymer added, **S2 class very flexible**, high performance and stability powder adhesive mortar with **reduced slip** and **long working time**, with superior qualities.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramics, granite, granite ceramic, marble, clinker, glass mosaic and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic, such as work places, shopping malls, schools and hospitals,
- Places exposed to temperature changes, such as cold storage depots, flash freezing facilities and floor heating systems,
- Places exposed to water and outdoor weather conditions, such as pools, water tanks, terraces and balconies,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Decorative due to its white color.
- Since it is the same color as the white joint, the joint application can be started in a shorter time.
- Very flexible and provides strong adhesion.
- Has transverse deformation property.
- Resistant to water and frost and to the tensions on the surface that are caused by sudden temperature changes.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied granite ceramics.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.35 kg/L
Water Mixing Ratio	: 5.5 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2 - 2.5 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Transverse Deformation	: ≥ 5 mm (EN 12002)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

HIGHFLEX® FLUID

Granite Ceramic Adhesive Mortar
C2ES1

Description:
Cement based, single component, polymer added, **S1 class very flexible**, high performance and stability powder adhesive mortar with **long working time** which is easy to apply thanks to its **fluidity**.

Application Areas:
- Indoor and outdoor,
- Horizontal surfaces such as concrete, screed or cement-bonded particle boards and insulation panels such as stone wool, EPS and XPS,
- Bonding of large-sized floor ceramics, granite, granite ceramic, marble, clinker, decorative bricks, glass mosaics, terra cotta and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic, such as work places, shopping malls, schools and hospitals,
- Industrial places exposed to heavy loads such as factories or plants,
- Places exposed to temperature changes, such as cold storage depots, flash freezing facilities and floor heating systems,
- Places exposed to water and outdoor weather conditions, such as pools, water tanks, terraces and balconies,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Very flexible and provides strong adhesion.
- Has transverse deformation property.
- Resistant to water and frost and to the tensions on the surface that are caused by sudden temperature changes.
- Can correct gaps and defects up to 5 mm.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied granite ceramics.
- Provides high stability and is easy to apply on floors with its fluid consistency.
- Ensures the back side of the ceramics and all types of natural stones are covered, thanks to its consistency.
- Makes the levelling of ceramics and natural stones easy while laying.

Consumption:
2 - 4 kg/m^2 (Varies depending on the application surface and trowel notch size.)

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.30 kg/L
Water Mixing Ratio	: 7 L water / 25 kg powder
Resting Period	: 2 - 3 minutes
Pot Life	: ~ 2 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Transverse Deformation	: ≥ 2.5 mm and < 5 mm (EN 12002)
Walk-on Time	: ~ 6 hours
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

FİXA® FLEX

Granite Ceramic Adhesive Mortar C2TES1 (Double Component)

Description:
Double component, very strong and flexible adhesive with **reduced slip** and **long working time**. Component A is a cement based, polymer added powder adhesive mortar, component B is a very flexible polymer emulsion.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramic, granite, granite ceramic, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic such as work places, shopping malls, schools and hospitals,
- Floor heating systems,
- Bonding of ceramics on old granite and marble surfaces,
- Bonding of ceramics on gypsumboard,
- Bonding of covering materials such as ceramics, granite ceramic, marble up to 30 m height on facades of buildings. Mechanical fixing should be done if necessary.

Advantages:
- Very flexible and provides strong adhesion.
- Resistant to water and frost and to the tensions on the surface that are caused by sudden temperature changes.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust applied granite ceramics.
- Not affected by temperature changes, has high freeze-thaw resistance.
- Provides high stability and does not sag in vertical applications.

Consumption:
5.5 - 6.5 kg/m^2

Packaging:
Component A: 25 kg kraft bags
Component B: 6 kg plastic jerrycans

Technical Properties	
Appearance	: A : Grey colored fine powder B : White colored liquid
Density	: A : ~ 1.45 kg/L, B : ~ 1.03 kg/L
Mixing Ratio	: 6 kg liquid / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 1 hour
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -40°C and +80°C

FİXA®

Fast Setting Granite Ceramic Adhesive Mortar C2FT

Description:
Cement based, single component, polymer added, **fast setting**, high performance and stability powder adhesive mortar **with reduced slip**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Places required to be ready for use within 24 hours,
- Bonding of medium and large-sized floor and wall ceramics, granite, granite ceramics, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic such as work places, shopping malls, schools and hospitals,
- Floor heating systems,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Sets fast and gains its strength in 6 hours, allows tile grouting in 3 - 4 hours.
- Provides strong adhesion.
- Resistant to water and frost and is not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 6.5 - 6.75 L water / 25 kg powder
Resting Period	: 2 - 3 minutes
Pot Life	: 25 - 30 minutes
Application Temperature	: Between +5°C and +35°C
Early Tensile Adhesion Strength After	: After 6 hours ≥ 0.5 N/mm^2 (EN 1348)
Open Time Tensile Adhesion Strength	: After min. 10 minutes ≥ 0.5 N/mm^2 (EN 1346)
Tensile Adhesion Strength	: ≥ 1 N/mm^2 (28 days) (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 6 hours
Service Temperature	: Between -30°C and +80°C

FİXA®

Fast Setting Granite Ceramic Adhesive Mortar C2FT (White)

Description:
White cement based, single component, polymer added, **fast setting**, high performance and stability powder adhesive mortar **with reduced slip**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Places required to be ready for use within 24 hours,
- Bonding of medium and large-sized floor and wall ceramics, granite, granite ceramics, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic such as work places, shopping malls, schools and hospitals,
- Floor heating systems,
- Bonding of ceramics on old granite and marble surfaces.

Advantages:
- Sets fast and gains its strength in 6 hours, allows tile grouting in 3 - 4 hours.
- Decorative due to its white color.
- Since it is the same color as the white joint, the joint application can be started in a shorter time.
- Provides strong adhesion.
- Resistant to water and frost and is not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
4 - 6 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 6.75 - 7 L water / 25 kg powder
Resting Period	: 2 - 3 minutes
Pot Life	: 25 - 30 minutes
Application Temperature	: Between +5°C and +35°C
Early Tensile Adhesion Strength After	: After 6 hours ≥ 0.5 N/mm^2 (EN 1348)
Open Time Tensile Adhesion Strength	: After min. 10 minutes ≥ 0.5 N/mm^2 (EN 1346)
Tensile Adhesion Strength	: ≥ 1 N/mm^2 (28 days) (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 6 hours
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

FİXA®

Pool and Wet Floor Adhesive Mortar C2TES1

Description:
Cement based, single component, polymer added, **S1 class**, **very flexible**, high performance powder adhesive mortar with **reduced slip** and **long working time**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Wet areas such as pools, water tanks, sauna, Turkish baths,
- Bonding of covering materials such as ceramics and glass mosaic on surfaces such as concrete, plaster and screed.

Advantages:
- Resistant to water and frost.
- Flexible and provides strong adhesion.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust bonded ceramics.
- Not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
3.5 - 4 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 6 - 6.5 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2.5 - 3 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

FİXA®

Pool and Wet Floor Adhesive Mortar C2TES1 (White)

Description:
White cement based, single component, polymer added, **S1 class**, **very flexible**, high performance powder adhesive mortar with **reduced slip** and **long working time**.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Wet areas such as pools, water tanks, sauna, Turkish baths,
- Bonding of covering materials such as ceramics and glass mosaic on surfaces such as concrete, plaster and screed.

Advantages:
- Decorative due to its white color.
- Enables to start the tile grouting faster as it has the same color as the white tile grout.
- Resistant to water and frost.
- Flexible and provides strong adhesion.
- Provides long workability, saves time and labor.
- Allows sufficient time to adjust bonded ceramics.
- Not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.

Consumption:
3.5 - 4 kg/m^2

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: White colored fine powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 6.5 - 7 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 2 - 2.5 hours
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

FİXA®

Natural Stone and Cladding Brick Adhesive Mortar C2TE

Description:
Cement based, single component, polymer added, **flexible**, **thick bed** powder adhesive mortar with **reduced slip** and high performance and stability.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of covering materials such as natural stone, granite, marble, cladding brick, terra cotta, manufactured stones or large-sized ceramics,
- Bonding of floor covering on imperfect surfaces without combing.

Advantages:
- Flexible and provides strong adhesion.
- Resistant to water and frost.
- Not affected by temperature changes.
- Provides high stability and does not sag in vertical applications.
- Covering can be made on floors without applying screeds initially.

Consumption:
Varies depending on the application surface.

Packaging:
25 kg kraft bags

Technical Properties	
Appearance	: Grey colored coarse powder
Powder Density	: ~ 1.55 kg/L
Water Mixing Ratio	: 5 - 6 L water / 25 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 1.5 - 2 hours
Application Temperature	: Between +5°C and +35°C
Tensile Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1348)
Slip	: ≤ 0.5 mm (EN 1308)
Walk-on Time	: 24 hours
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

AKRILAN® 200

Ready to Use Paste Type Tile Adhesive D2TE

Description:
Acrylic dispersion based, **ready-to-use**, high performance paste type tile adhesive with **long working time** and **reduced slip**.

Application Areas:
- Indoor,
- Vertical surfaces,
- Bonding of ceramic, tiles and glass mosaics,
- Bonding of ceramic on painted surfaces, gypsum board, gypsum-plaster, cement-bonded particle boards, wood,
- Bonding of ceramic on old coatings.

Advantages:
- Ready to use.
- Easily and quick applied, saves labor.
- Has high adhesion property.
- Has long workability time.
- Provides high stability, does not slip on vertical applications.

Consumption:
1.70 kg/m^2 for 1 mm thickness

Packaging:
5 kg and 15 kg plastic buckets

Technical Properties	
Appearance	: White colored acrylic dispersion
Density	: ~1.70 kg/L
Shear Adhesion Strength	: ≥ 1 N/mm^2 28 days (EN 1324)
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	: Between +5°C and +30°C
Slip	: ≤ 0.5 mm (EN 1308)
Service Temperature	: Between -30°C and +80°C

REPOX® 100

Epoxy Based Marble and Granite Adhesive R2TE

Description:
Epoxy resin based, double component, **solvent-free** epoxy **adhesive mortar** with high adhesion strength, **resistant** to **chemicals** and **bacteria**, easy-to-apply, **can be cleaned with water**, reduced slip with long working time.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Hospitals and all kinds of hygienic environments,
- Swimming pools, thermal pools and wet areas,
- Medicine, paint, paper and food industries,
- Printing house, laundries, industrial kitchens and dining halls,
- Places exposed to heavy pedestrian traffic such as shopping malls, terminals,
- Floor heating systems,
- Waste water and treatment facilities,
- Bonding of materials such as ceramic, tiles, marble, granite, ceramic resistant to acids, porcelain ceramic, glass mosaic and glass brick to be used in places listed above, on surfaces such as concrete, plaster and metals.

Advantages:
- Does not cause mould and fungus formation. Does not have harmful effect on potable water.
- Has long working time, easily cleaned.
- Has high mechanical strength.
- Resistant to various chemicals, corrosive water, organic salts and acids, alkalis and oils.
- Not affected by sudden temperature changes. Resistant to freeze-thaw cycle.

Consumption:
1.70 kg/m^2 (for 1 mm thickness). According to system solutions, the method of application and its consumption vary depending on the surface's absorption, roughness and application method.

Packaging:
Sets of 5.40 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Comp. A (Resin): Thixotrophic liquid - grey Comp. B (Hardener): Liquid - yellow	
Packaging	: Comp. A: 5 kg, Comp. B: 0.4 kg	
Mixture Density	: 1.70 ± 0.05 g/cm^3 (TS EN ISO 2811-1)	
Application Temperature	: Between +10°C and +30°C	
Shear Adhesion Strength	: ≥ 2 N/mm^2 (EN 12003)	
Extended Open Time Tensile Adhesion Strength	: After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)	
Slip	: ≤ 0.5 mm (EN 1308)	
Pot Life (5.4 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	120 minutes
	20°C	60 minutes
	30°C	30 minutes
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Dry Environment: Between -20°C and +80°C Wet Environment: Between -20°C and +50°C	

ADHERA®

Adherence Improving Primer

Description:
Acrylic dispersion based, single component, viscous primer with high adhesion properties for increasing adherence and balancing the absorption of the surface before covering ceramics on vertical and glassy surfaces or on ceramics.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Before bonding of ceramic on ceramics,
- On sound and painted (polyurethane, epoxy and acrylic) surfaces with cement based plasters and screeds,
- To increase adherence and balance water requirements of the surface before coating on wooden and parquet surfaces.

Advantages:
- Ready to use, easily and quickly applied.
- Saves labor, economical.
- Waterborne, safe to use indoor.
- Provides high adherence.
- Prevents the mortar to lose its water fast if applied prior to cement based coatings.
- Provides resistance against moisture.

Consumption:
300 - 500 g/m^2 (Varies depending on the absorption and roughness of the surface.)

Packaging:
1 kg and 5 kg plastic buckets

Technical Properties	
Appearance	: Dusty rose colored acrylic dispersion
Density	: ~ 1.55 kg/L
Application Temperature	: Between +5°C and +30°C
Drying Time	: 3 - 5 hours
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

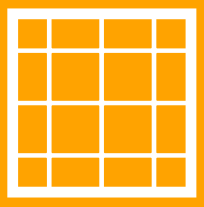
Tile and Ceramic Adhesives Product Application Table

Application Areas	Products	FİXA Extra Tile and Ceramic Adhesive Mortar C1TE	FİXA Extra Tile and Ceramic Adhesive Mortar C1TE (White)	FİXA FLEXUP Tile and Ceramic Adhesive Mortar C1TE	FİXA FLEXUP Tile and Ceramic Adhesive Mortar C1TE (White)	FİXA Tile and Ceramic Adhesive Mortar C1T	FİXA Tile and Ceramic Adhesive Mortar C1T (White)	PROX 910 Tile and Ceramic Adhesive Mortar C1T	PROX 911 Tile and Ceramic Adhesive Mortar C1T (White)	FİXA Fast Setting Tile and Ceramic Adhesive Mortar C1FT	FİXA Fast Setting Tile and Ceramic Adhesive Mortar C1FT (White)	FİXA Granite Ceramic Adhesive Mortar C2T	FİXA Granite Ceramic Adhesive Mortar C2T (White)	FİXA FLEX Granite Ceramic Adhesive Mortar C2TE	FİXA FLEX Granite Ceramic Adhesive Mortar C2TE (White)	PROX 950 FLEX Granite Ceramic Adhesive Mortar C2TE	PROX 951 FLEX Granite Ceramic Adhesive Mortar C2TE (White)	HIGHFLEX Granite Ceramic Adhesive Mortar C2TES1	HIGHFLEX Granite Ceramic Adhesive Mortar C2TES1 (White)	HIGHFLEX PRO Granite Ceramic Adhesive Mortar C2TES2	HIGHFLEX PRO Granite Ceramic Adhesive Mortar C2TES2 (White)	HIGHFLEX FLUID Granite Ceramic Adhesive Mortar C2ES1	FLEX Granite Ceramic Adhesive Mortar C2TES1 (Double Comp.)	FİXA Fast Setting Granite Ceramic Adhesive Mortar C2FT	FİXA Fast Setting Granite Ceramic Adhesive Mortar C2FT (White)	FİXA Pool and Wet Floor Adhesive Mortar C2TES1	FİXA Pool and Wet Floor Adhesive Mortar C2TES1 (White)	FİXA Natural Stone and Brick Adhesive Mortar	AKRILAN 200 Ready to Use Paste Type Tile Adhesive D2TE	REPOX 100 Epoxy Based Marble and Granite Adhesive R2TE
Covering Materials	Tile, Ceramic	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●
	Granite Ceramics - Small and Medium Size	○	○	○	○					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Granite Ceramics - Big Size			○	○					○	○	○	○	●	●	○	○	●	●	●	●	●	●	●	●	○	○	●	●	●	●
	Natural Granite			○	○					○	○	○	○	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●		●	●
	Marble	○	○	○	○					○	○	○	○	●	●	○	○	●	●	●	●	○	●	●	●	●	●	●		●	●
	Glass Mozaic	○	●	○	●		●		●	○	○	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●		●	●	●
	Natural Stone			○	○					○	○	○	○	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●		●	●
	Terracotta			○	○					○	○	○	○	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●		●	●
	Biscuits Bricks			○	○					○	○	○	○	●	●	○	○	●	●	●	●			●	●	●	●	●		●	●
Application Areas	Wet Areas (WC, Bathroom, Kitchen)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Terrace Roof, Balcony	●	●	●	●					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
	Turkish Bath and Sauna													●	●			●	●	●	●	●	●	○	○	●	●	●			●
	Thermal Pool													●	●			●	●	●	●	●	●			●	●	●			●
	Swimming Pool											○	○	●	●	○	○	●	●	●	●	●	●	○	○	●	●	●			●
	Potable Water Tanks											○	○	●	●	○	○	●	●	●	●	●	●	○	○	●	●	●			●
	Indoor Parking Lot	●	●	●	●	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Grounds Exposed to Heavy Pedestrian Traffic (Commercial and Industrial Areas)	○	○	○	○					●	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	○	○	○			●
	Exterior Facades	○	○	○	○					●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●			●
	Gardens and Parks	○	○	○	○					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
	Roof																														
	Places required to be ready for use within 24 hours									●	●													●	●						
Application Surfaces	Cement Based Plaster	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●
	Cement Based Screed	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Exposed Concrete	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Cement-bonded Particle Boards	○	○	○	○	○	○	○	○			●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●
	Floor Heating Systems									●	●			●	●	○	○	●	●	●	●	●	●	○	○						●
	Gypsumboard																						●						●		
	Wood																												●		
	PVC, Fiberglass																														●
	Metal																														●
	Painted (Over the Plaster)																												●		○
	Ceramic							○		●	●	○	○	●	●	○	○	●	●	●	●	●	●	●	●	○	○	○	●	●	●

● Highly Recommended ○ Suitable

FİXA

TILE GROUTS



FİXA®

Tile Grout (1 - 6 mm) CG1

Description:
Cement based, polymer added, high performance, single component, easy-to-apply tile grout which forms a smooth surface for **1 - 6 mm** joints.

Application Areas:
- Indoor,
- Horizontal and vertical applications,
- Grouting **1 - 6 mm** joints of ceramic, tiles and similar coating materials.

Advantages:
- Does not cause color fading, dusting and cracking.
- Provides a smooth surface.
- Bonds well on the sides of the ceramics.
- Resistant to abrasion.

Consumption:
Refer to the tile grout consumption table (Page 103).

Packaging:
20 kg kraft bags

Technical Properties	
Appearance	: White fine powder
Powder Density	: ~ 1.15 kg/L
Water Mixing Ratio	: 6 - 7 L water / 20 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 1 hour
Application Temp.	: Between +5°C and +35°C
Service Time	: Wall: 24 hours Floor: 48 hours
Flexibility	: Medium
Flexural Strength	: ≥ 2.5 N/mm² (EN 12808-3)
Compressive Strength	: ≥ 15 N/mm² (EN 12808-3)
Abrasion Resistance	: ≤ 2000 mm³ (EN 12808-2)
Shrinkage	: ≤ 3 mm/m (EN 12808-4)
Water Absorption	: In 30 minutes ≤ 5 g (EN 12808-5) In 240 minutes ≤ 10 g (EN 12808-5)
Service Temperature	: Between -20°C and +70°C

PROX® 1010

Tile Grout (1 - 6 mm) CG1

Description:
Cement based, polymer added, single component, easy-to-apply tile grout which forms a smooth surface for **1 - 6 mm** joints.

Application Areas:
- Indoor,
- Horizontal and vertical applications,
- Grouting **1 - 6 mm** joints of ceramic, tiles and similar coating materials.

Advantages:
- Does not cause color fading, dusting and cracking.
- Provides a smooth surface.

Consumption:
Refer to the tile grout consumption table (Page 103).

Packaging:
20 kg kraft bags

Technical Properties	
Appearance	: White fine powder
Powder Density	: ~ 1.15 kg/L
Water Mixing Ratio	: 6 - 7 L water / 20 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 1 hour
Application Temp.	: Between +5°C and +35°C
Service Time	: Wall: 24 hours Floor: 48 hours
Flexibility	: Medium
Flexural Strength	: ≥ 2.5 N/mm² (EN 12808-3)
Compressive Strength	: ≥ 15 N/mm² (EN 12808-3)
Abrasion Resistance	: ≤ 2000 mm³ (EN 12808-2)
Shrinkage	: ≤ 3 mm/m (EN 12808-4)
Water Absorption	: In 30 minutes ≤ 5 g (EN 12808-5) In 240 minutes ≤ 10 g (EN 12808-5)
Service Temperature	: Between -20°C and +70°C

FİXA® FLEX

Tile Grout (1 - 6 mm) CG2WA

Description:
Cement based, polymer added, high performance, single component, easy-to-apply, **flexible** tile grout which forms a smooth surface for **1 - 6 mm** joints with **reduced water absorption** and high abrasion resistance.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Places such as pools, water tanks, sauna and Turkish baths,
- Floor heating systems,
- Grouting **1 - 6 mm** joints of coatings such as granite ceramic, large sized ceramic, tile, natural granite, marble, clinker and glass mosaic.

Advantages:
- Does not cause color fading, dusting and cracking.
- Provides a smooth surface.
- Not affected by sudden temperature changes.
- Resistant to water and frost.
- Can be used in floor heating systems.
- Bonds well on the sides of the ceramics without cracking.
- Offers a wide selection of colors and is decorative.
- Resistant to abrasion.

Consumption:
Refer to the tile grout consumption table (Page 103).

Packaging:
1 kg and 5 kg polyethylene bags
10 kg and 20 kg kraft bags

Approved by METU Chemical Eng. Dept. according to BS 6920 Standard for potable water contact compatibility. Report no: 2019.03.04.718/01

Technical Properties	
Appearance	: White or colored fine powder
Powder Density	: ~ 1.15 kg/L
Water Mixing Ratio	: 6 - 7 L water / 20 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 1 hour
Application Temp.	: Between +5°C and +35°C
Service Time	: Wall: 12 hours Floor: 24 hours
Flexibility	: Good
Flexural Strength	: ≥ 2.5 N/mm² (EN 12808-3)
Compressive Strength	: ≥ 15 N/mm² (EN 12808-3)
Abrasion Resistance	: ≤ 1000 mm³ (EN 12808-2)
Shrinkage	: ≤ 3 mm/m (EN 12808-4)
Water Absorption	: In 30 minutes ≤ 2 g (EN 12808-5) In 240 minutes ≤ 5 g (EN 12808-5)
Service Temperature	: Between -30°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

FİXA® FLEX
Tile Grout (6 - 20 mm) CG2WA

Description:
Cement based, polymer added, high performance, single component, easy-to-apply, **flexible** tile grout with **high abrasion** and **cracking resistance** for **6 - 20 mm** joints with reduced water absorption.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Places exposed to heavy pedestrian traffic,
- Places such as pools, water tanks, sauna and Turkish baths,
- Floor heating systems,
- Grouting **6 - 20 mm** joints of coverings such as granite ceramic, large sized ceramic, natural granite, marble, terra cotta, clinker, pressed brick, natural stone, slate stone and glass mosaic,
- As glass brick adhesive.

Advantages:
- Does not cause color fading, dusting and cracking.
- Not affected by sudden temperature changes.
- Resistant to water and frost.
- Can be used in floor heating systems.
- Bonds well on the sides of the ceramics without cracking.
- Offers a wide selection of colors and is decorative.
- Resistant to abrasion.

Consumption:
Refer to the tile grout consumption table (Page 103).

Packaging:
1 kg and 5 kg polyethylene bags
10 kg and 20 kg kraft bags

Approved by METU Chemical Eng. Dept. according to BS 6920 Standard for potable water contact compatibility. Report no: 2019.03.04.718/01

Technical Properties	
Appearance	: White or colored coarse powder
Powder Density	: ~ 1.45 kg/L
Water Mixing Ratio	: 2.8 - 3.2 L water / 20 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: ~ 1 hour
Application Temp.	: Between +5°C and +35°C
Service Time	: Wall: 12 hours Floor: 24 hours
Flexibility	: Good
Flexural Strength	: ≥ 2.5 N/mm² (EN 12808-3)
Compressive Strength	: ≥ 15 N/mm² (EN 12808-3)
Abrasion Resistance	: ≤ 1000 mm³ (EN 12808-2)
Shrinkage	: ≤ 3 mm/m (EN 12808-4)
Water Absorption	: In 30 minutes ≤ 2 g (EN 12808-5) In 240 minutes ≤ 5 g (EN 12808-5)
Service Temperature	: Between -30°C and +80°C

REPOX® 200
Epoxy Based Tile Grout

Description:
Epoxy resin based, double component, **solvent-free tile grout** with high bonding strength, resistant to **chemicals** and **bacteria**, easy to apply, **water-cleanable**, designed for **2 - 10 mm joints**.

Application Areas:
- Indoor,
- Horizontal and vertical applications,
- Hospitals and all kinds of hygienic environments,
- Swimming pools, thermal pools and wet areas,
- Medicine, paint, paper and food industries,
- Printing houses, laundries, industrial kitchens and dining halls,
- Places exposed to heavy pedestrian traffic, such as shopping malls, terminals,
- Waste water and treatment facilities,
- Grouting joints of materials such as ceramic, tile, marble, granite, ceramic resistant to acids, porcelain ceramic, glass mosaic and glass brick to be used in places listed above.

Advantages:
- Does not cause mould and fungus formation. Does not have harmful effect on potable water.
- Has long workability time, easy to clean.
- Has high mechanical strength.
- Resistant to various chemicals, corrosive water, organic salts and acids, alkalis and oils.
- Not affected by sudden temperature changes. Resistant to freeze-thaw cycle.

Consumption:
Refer to the tile grout consumption table (Page 103).

Packaging:
Sets of 5.40 kg (A+B) tin buckets

Technical Properties		
Appearance - Color	: Comp. A (Resin): Thix. liquid - special colors* Comp. B (Hardener): Liquid - yellow	
Packaging	: Comp. A: 5 kg, Comp. B: 0.4 kg	
Mixture Density	: 1.70 ± 0.05 g/cm³ (TS EN ISO 2811-2)	
Hardness (Shore D)	: 75 ± 3 (TS EN ISO 868) 7 days	
Application Temperature	: Between +10°C and 30°C	
Compressive Strength	: ≥ 45 N/mm² (TS EN 12190) 7 days	
Flexural Strength	: ≥ 30 N/mm² (TS EN 12190) 7 days	
Adhesive Strength	: ≥ 2 N/mm² Fracture within the concrete substrate (TS EN 1542) 7 days	
Pot Life (5.4 kg)	: Temperature	Duration (TS EN ISO 9514)
	10°C	120 minutes
	20°C	60 minutes
	30°C	30 minutes
Abrasion Resistance	: ≤ 250 mm³ (EN 12808-2)	
Shrinkage	: ≤ 1.5 mm/m (12808-4)	
Water Absorption	: After 240 minutes ≤ 0.10 g (EN 12808-5)	
Complete Curing Time	: 7 days (23°C TS 4317)	
Service Temperature	: Dry Environment: Between -20°C and +80°C Wet Environment: Between -20°C and +50°C	

**Please refer to page 103 for tile grout color chart*

FİXA®
Tile Grout Cleaner

Description:
Liquid cleaner with **acidic content** to remove stains and dirt accumulated in tile grouts and joints of coating materials.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Tile grouts and joints of matte coating materials,
- Since it is acidic and abrasive, a tape must be used to prevent spills over the sides of grouts when working on glossy coating materials.

Advantages:
- Cleans easily the residues that cannot be removed with regular cleaning materials thanks to its acidic content.
- Its active components are 90% recyclable.

Consumption:
Varies depending on the amount of dirt on the surface and the width of grout.

Packaging:
500 ml spray packages

Technical Properties	
Appearance	: Light green transparent liquid
Liquid Density	: 1.00 - 1.10 kg/L
Application Temp.	: Between +5°C and +35°C
pH	: ~ 1

FİXA®
Cement Residue Remover

Description:
Liquid cleaner with **acidic content** to remove residues such as cementitious mortars, paint, gypsum, tile grout from the surfaces of acid-resistant coating materials.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Cleaning tiles, ceramics, granite ceramics, clinker, terra cotta, rustic coatings, matte natural stone and artificial stone surfaces after the application,
- Abrasive because of its acidic content. Should not be used on natural granite, marble, natural stone or special glazed mosaic coatings and metals as it may cause loss of brightness.

Advantages:
- Cleans easily the residues that cannot be removed with regular cleaning materials thanks to its acidic content.
- Its active components are 90% recyclable.

Consumption:
Varies depending on usage and on the amount of residues on the surface.
20 - 100 m^2 of surface can be cleaned with 1 L product.

Packaging:
1 L plastic bottles

Technical Properties	
Appearance	: Light blue transparent liquid
Liquid Density	: 1.00 - 1.10 kg/L
Application Temp.	: Between +5°C and +35°C
pH	: ~ 1

FİXA®
Stain Remover

Description:
Liquid cleaner with **base content** to remove stains such as oil, coffee, tea from the surfaces of coating materials.

Application Areas:
- Indoor and outdoor,
- Horizontal and vertical applications,
- Glossy or matte surfaces,
- Parquet and laminated parquet floors,
- Removing stubborn stains such as oil, coffee, tea, ink, wine and fruit juices from coating materials, such as ceramic, granite ceramic, clinker, terra cotta, natural stone, marble and granite.

Advantages:
- Can be conveniently used on sensitive surfaces thanks to its base content.
- Can be used by spreading on the whole surface.
- Its active components are 90% recyclable.

Consumption:
Varies depending on the amount of residues on the surface.
20 - 100 m^2 of surface can be cleaned with 1 L product.

Packaging:
1 L plastic bottles

Technical Properties	
Appearance	: Light pink transparent liquid
Liquid Density	: 0.98 - 1.00 kg/L
Application Temp.	: Between +5°C and +35°C
pH	: ~ 13

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

Tile Grouts Product Application Table

Application Areas / Products		FİXA Tile Grout (1 - 6 mm) CG1	PROX 1010 Tile Grout (1 - 6 mm) CG1	FİXA FLEX Tile Grout (1 - 6 mm) CG2WA	FİXA FLEX Tile Grout (6 - 20 mm) CG2WA	REPOX 200 Epoxy Based Tile Grout
Covering Materials	Tile, Ceramic	●	●	●	●	●
	Granite Ceramic - Small and Medium Size			●	●	●
	Granite Ceramic - Medium and Large Size			●	●	●
	Natural Granite			●	●	●
	Marble			●	●	●
	Glass Mozaic	○	○	●	●	●
	Natural Stone				●	●
	Terracotta				●	●
	Biscuit Bricks				●	●
Application Areas	Areas with No Specific Requirements	●	●	●	●	
	Wet Areas (WC, Bathroom, Kitchen)	○	○	●	●	●
	Terrace Roof, Balcony			●	●	●
	Exterior Facades (Exposed to Temperature Changes)				●	●
	Gardens and Parks				●	
	Areas Frequently Cleaned with Detergents					●
	Turkish Bath and Sauna				●	●
	Thermal Pool, Hot Spring				●	●
	Swimming Pool			●	●	●
	Potable Water Tanks			●	●	●
	Surfaces Exposed to Heavy Pedestrian Traffic			○	●	●
	Food Facilities					●
	Hospitals, Laboratories					●

● Highly Recommended ○ Suitable

Tile Grout Color Chart

Colors		Cement Based	Epoxy Based
	01 White	✓	✓
	10 Light Grey	✓	
	11 Grey	✓	✓
	12 Dark Grey	✓	
	40 Bahama Beige	✓	✓
	41 Light Brown	✓	
	42 Chocolate Brown	✓	
	44 Dark Brown	✓	
	45 Troy Beige	✓	
	46 Seljuk Beige	✓	
	47 Ottoman Beige	✓	
	48 Sandy Beige	✓	
	70 Ivory	✓	
	74 Hornbeam Brown	✓	
	75 Maroon Brown	✓	
	95 Anthracite	✓	
	99 Black	✓	✓

**All colors shown in this catalogue are the closest to the original colors, depending on the printing techniques. Therefore minimal differences on color shades maybe observed on the product.*

Tile Grout Consumption Table

Joint Width (mm)	1	1	1	1	1	1	2	2	2	2	2	2
Joint Depth (mm)	6	6	8	9	9	9	6	6	8	9	9	9
Tile Dimensions (cm)	5x5	10x10	20x20	20x25	33x33	40x40	20x20	20x25	33x33	40x40	33x60	60x60
Consumption: **Cement** Based (g)	454	238	173	178	130	130	260	238	230	260	227	195
Consumption: **Epoxy** Based (g)	428	224	163	168	122	122	245	224	218	245	214	184

Joint Width (mm)	3	3	3	3	3	3	4	4	4	4	4	4
Joint Depth (mm)	6	6	8	9	9	9	6	6	8	9	9	9
Tile Dimensions (cm)	5x5	10x10	20x20	20x25	33x33	40x40	20x20	20x25	33x33	40x40	33x60	60x60
Consumption: **Cement** Based (g)	1361	713	518	535	389	389	518	475	461	518	454	389
Consumption: **Epoxy** Based (g)	1285	673	490	505	367	367	489	449	435	490	428	367

Joint Width (mm)	5	5	5	5	5	6	6	6	6	7	7	10
Joint Depth (mm)	8	9	9	9	12	8	9	12	12	9	12	12
Tile Dimensions (cm)	20x20	33x33	40x40	33x60	60x60	40x40	33x60	60x60	60x120	40x40	60x60	60x120
Consumption: **Cement** Based (g)	864	648	648	567	648	691	680	778	648	907	907	1080
Consumption: **Epoxy** Based (g)	816	612	612	536	612	653	643	734	612	857	857	1020

TECHNICAL ADHESIVES

POLYMERA® MS 950

MS Polymer Based Multi-Purpose Elastic Adhesive

Description:
MS Polymer based, single component, elastic, solvent and isocyanate free, hybrid **construction sealant** and **adhesive**.

Application Areas:
- Indoor and outdoor,
- Joint combinations and adhesion of aluminum, wood, metal and glass,
- All kinds of cladding facade joints,
- Intersection and adhesion details of prefabricated elements,
- Filling joints and adhesion of natural materials such as marble, natural stone and granite,
- Joint combinations and adhesion of glass, ceramic, tiles and glazed surfaces,
- Joints of sheet and metal for adhesion, isolation and the absorption of the vibrations in the production of automotive, container, vehicle body and caravan,
- Joints and adhesion of stainless, galvanized or black steels,
- Production and installation of ventilation ducts and air conditioners.

Advantages:
- **Single component**, easy to apply.
- Tolerates all kinds of movements and protects its sealing properties in joints thanks to its **high modulus (HM)** and **high adhesion** property.
- Does not lose volume or mass when cured.
- Does not cause bubbles following applications on damp surfaces.
- **Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Durable as it does not contain **solvent** and **isocyanate**. Does not shrink, sag or peel off. Has **low VOC** content.
- Provides strong and elastic adhesion in buildings and vehicles exposed to vibrations.
- Can be **overpainted** with waterborne and other types of paints.
- Prevents mould and fungus formation.
- Cures neutrally, **odorless**.
- Adheres perfectly on many surfaces **without primer**.
- Protects its elasticity even at low and high temperatures (-40°C and +80°C) once cured.

Consumption:
In adhesive applications, the consumption amount varies depending on the application surface and the load on it.
In sealant applications, please refer to the table below.

Width of the joint mm	Depth of the joint mm	Consumption ml (per 1 m)	Consumption g (per 1 m)
6	6	36	55.8
10	10	100	155
20	12	240	372

Packaging:
290 ml plastic cartridges
600 ml aluminum sausages

Technical Properties	
Appearance	: High viscosity MS paste
Color	: Pls. see the color chart on page 39
Density	: 1.55 ± 0.05 g/cm³
Hardness (Shore A)	: 50 ± 5
Film Formation Time	: 30 ± 10 minutes
Curing Rate	: 3 mm / 24 hours
Tensile Strength	: ≥ 1.80 MPa (DIN 53504)
Elongation at Break	: > 300% (7 days)
Application Temperature	: Between +5°C and +35°C
Service Temperature	: Between -40°C and +80°C

POLYMERA® MS 960

MS Polymer Based Auto Glass (Windshield) Adhesive

Description:
MS Polymer based, single component, elastic, solvent and isocyanate free, hybrid, **auto glass (windshield)** adhesive.

Application Areas:
- Elastic bonding of vehicle glasses,
- Joints of sheet and metal for adhesion, isolation and the absorption of the vibrations in the production of automotive, container, vehicle body and caravan.

Advantages:
- **Single component**, easy to apply.
- Tolerates all kinds of movements and protects its sealing properties in joints thanks to its **high modulus (HM)** and **high adhesion** property.
- Does not lose volume or mass when cured.
- Does not cause bubbles following applications on damp surfaces.
- **Resistant to UV**, does not crack or turn to yellow.
- Does not sag or spread.
- Cold applied.
- Durable as it does not contain **solvent** and **isocyanate**. Does not shrink, sag or peel off. Has **low VOC** content.
- Provides strong and elastic adhesion in vehicles exposed to vibrations.
- Can be **overpainted** with waterborne and other types of paints.
- Prevents mould and fungus formation.
- Cures neutrally, **odorless**.
- Adheres perfectly on many surfaces **without primer**.
- Protects its elasticity even at low and high temperatures (-40°C and +80°C) once cured.

Consumption:
The consumption amount varies depending on the application surface and the load on it.

Packaging:
600 ml aluminum sausages

Technical Properties	
Appearance	: High viscosity MS paste
Color	: Black
Sag Resistance	: Good
Density	: 1.44 ± 0.05 g/cm³
Hardness (Shore A)	: 65 ± 5
Film Formation Time	: 35 ± 10 minutes
Curing Rate	: 3 mm / 24 hours
Time to put the vehicle into service	: 6 hours (MDAT/FMV212)
Tensile Strength	: ≥ 3 MPa (DIN 53504)
Elongation at Break	: > 300% (7 days)
Application Temperature	: Between +5°C and +35°C
Service Temperature	: Between -40°C and +80°C

POLYMERA® MS 965

MS Polymer Based Industrial Adhesive

Description:
MS Polymer based, single component, elastic, solvent and isocyanate free, hybrid, **industrial adhesive**.

Application Areas:
- Bonding and sealing in automotive, container, bodywork and caravan manufacturing, particularly at sheet and metal joint areas to ensure sealing and absorption of vibrations,
- Bonding and sealing of sunroof systems,
- Bonding the roofs of automobiles, trains and trucks,
- Bonding of aluminum or polyester corner profiles to trailers,
- Bonding of automotive flooring systems,
- Sealing of welding seams.

Advantages:
- **Single component**, can be applied cold and easily.
- Tolerates all kinds of movements and protects its sealing properties in joints thanks to its **high modulus (HM)** and **high adhesion** property.
- Does not lose volume or mass when cured.
- Does not cause bubbles following applications on damp surfaces.
- **Resistant to UV**, does not crack or turn to yellow.
- Does not contain **solvent**, **isocyanate**, **PVC** and **silicone**, has **low VOC** content.
- Durable and does not crack, **shrink**, sag or peel.
- Provides strong and elastic adhesion in vehicles exposed to vibrations.
- Prevents mould and fungus formation.
- Can be **overpainted** with waterborne and other types of paints.
- Cures neutrally, **odorless**.
- Adheres perfectly on many surfaces **without primer**, including aluminum, stainless steel, galvanized steel, zinc, copper, brass, iron, glass and PVC.
- Has excellent resistance to weather conditions and temperature.
- Protects its elasticity even at low and high temperatures (-40°C and +80°C) once cured.

Consumption:
The consumption amount varies depending on the application surface and the load on it.

Packaging:
290 ml plastic cartridges
600 ml aluminum sausages

Technical Properties	
Appearance	: High viscosity MS paste
Color	: Black and white
Sag Resistance	: Good
Density	: 1.45 ± 0.05 g/cm³
Hardness (Shore A)	: 65 ± 5
Film Formation Time	: 35 ± 10 minutes
Curing Rate	: 3 mm / 24 hours
Tensile Strength	: ≥ 3 MPa (DIN 53504)
Elongation at Break	: > 300% (7 days)
Application Temperature	: Between +5°C and +35°C
Service Temperature	: Between -40°C and +80°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

POLYMERA® MS 953

MS Polymer Based Transparent Adhesive

Description:
MS Polymer based, single component, elastic, solvent and isocyanate free, **transparent**, **joint sealant** and **adhesive**.

Application Areas:
- Indoor and outdoor,
- Applications where transparent adhesives and sealing materials are required,
- Installation and isolation of glass, mirror and glazed surfaces,
- Joint combinations and adhesion of aluminum, wood, metal and glass,
- Joints of sheet and metal for adhesion, isolation and the absorption of the vibrations in the production of automotive, container, vehicle body and caravan,
- Filling joints and adhesion of natural materials such as marble, natural stone and granite.

Advantages:
- **Single component**, easy to apply.
- Can be used on all kinds of different colored surfaces as it is **transparent**.
- Tolerates all kinds of movements and protects its sealing properties in joints thanks to its **high modulus (HM)** and **high adhesion** property.
- Does not lose volume or mass when cured.
- Does not cause bubbles following applications on damp surfaces.
- **Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Durable as it does not contain **solvent** and **isocyanate**. Does not shrink, sag or peel off. Has **low VOC** content.
- Provides strong and elastic adhesion in buildings and vehicles exposed to vibrations.
- Prevents mould and fungus formation.
- Cures neutrally, **odorless**.
- Protects its elasticity even at low and high temperatures (-40°C and +80°C) once cured.

Consumption:
In adhesive applications, the consumption amount varies depending on the application surface and the load on it.
In sealant applications, please refer to the table below.

Width of the joint mm	Depth of the joint mm	Consumption ml (per 1 m)	Consumption g (per 1 m)
6	6	36	37.8
10	10	100	105
20	12	240	252

Packaging:
290 ml plastic cartridges
600 ml aluminum sausages

Technical Properties	
Appearance	: High viscosity MS paste
Color	: Transparent
Density	: 1.05 ± 0.03 g/cm³
Hardness (Shore A)	: 40 ± 5
Film Formation Time	: 50 ± 10 minutes
Curing Rate	: 2 mm / 24 hours
Tensile Strength	: ≥ 1.50 MPa (DIN 53504)
Elongation at Break	: > 150% (DIN 53504)
Application Temperature	: Between +5°C and +35°C
Service Temperature	: Between -40°C and +80°C

FX1® FIX & GO

MS Polymer Adhesive & Sealant

Description:
MS Polymer based, single component, hard-elastic, solvent and isocyanate free, **fast curing**, strong adhesive **with high initial tack**.

Application Areas:
- Indoor and outdoor,
- Installation of curtain tracks and roller blinds,
- Fast installation and bonding of almost all kinds of materials,
- Assembly of wood and composite materials,
- Elastic bonding of metals (aluminum, steel and stainless steel, anodized aluminum, brass, copper etc.),
- Assembly and bonding of ventilation systems,
- Fast assembly in bath, kitchen and sanitary areas,
- Fast assembly and bonding of natural materials such as marble, natural stone, granite.

Advantages:
- Has high **initial tack**, provides fast installation. Can be opened for use quickly.
- **Single component**, easy to apply.
- Durable as it does not contain **solvent** and **isocyanate**. Does not shrink, sag or peel off.
- **Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Bonds even under the water.
- Prevents mould and fungus formation.
- Cures neutrally, odorless.
- Adheres perfectly on many surfaces without primer.
- Protects its elasticity even at low and high temperatures (-40°C and +80°C) once cured.

Consumption:
The consumption amount varies depending on the application surface and the load on it.

Packaging:
290 ml plastic cartridges
600 ml aluminum sausages

Technical Properties	
Appearance	: High viscosity MS paste
Color	: Pls. see the color chart on page 39
Density	: 1.50 ± 0.05 g/cm³
Hardness (Shore A)	: 65 ± 5
Film Formation Time	: 7 ± 3 minutes
Curing Rate	: 3 mm / 24 hours
Tensile Strength	: ≥ 2.5 MPa (DIN 53504)
Elongation at Break	: > 150% (7 days)
Application Temperature	: Between +5°C and +35°C
Service Temperature	: Between -40°C and +80°C

EPDM BOND

Neutral Silicone Based EPDM Adhesive

Description:
Neutral silicone based, single component, solvent or isocyanate free elastic adhesive for bonding of **EPDM membranes** and coatings.

Application Areas:
- Indoor and outdoor,
- Bonding and fixing of EPDM membranes and coatings.

Advantages:
- **Single component**, easy to apply.
- Bonds **EPDM** membranes and coatings strongly to the surface.
- Can be used in joints of **EPDM** membranes and coatings as adhesive and for isolation purposes.
- Tolerates all kinds of movements and protects its sealing properties in joints thanks to its **high adhesion** property.
- Provides strong and elastic adhesion in buildings exposed to vibrations.
- Does not lose volume or mass when cured.
- Durable, does not contain **solvent** and **isocyanate**. Does not shrink, sag or peel off.
- **Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Prevents mould and fungus formation.
- Cures neutrally, odorless.
- Protects its elasticity even at low and high temperatures (-40°C and +150°C) once cured.

Consumption:
Varies depending on the application surface.

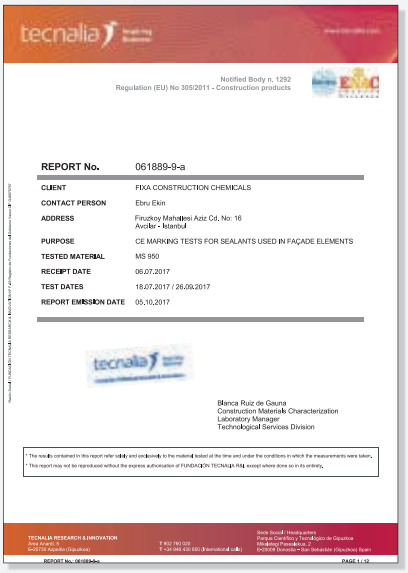
Packaging:
600 ml aluminum sausages

Technical Properties	
Appearance	: High viscosity silicone paste
Color	: Black
Density	: 1.35 ± 0.05 g/cm³
Hardness (Shore A)	: 35 ± 5
Film Formation Time	: 10 ± 5 minutes
Curing Rate	: 3 mm / 24 hours
Tensile Strength	: ≥ 1.3 MPa (DIN 53504)
Elongation at Break	: > 400% (DIN 53504)
Application Temperature	: Between +5°C and +40°C
Service Temperature	: Between -40°C and +150°C

Application instructions and technical data provided for the products are obtained in line with our experience and testing carried out according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

Technical Adhesive Products Test Reports

POLYMERA® MS 950 MS Polymer Based Multi-Purpose Elastic Adhesive



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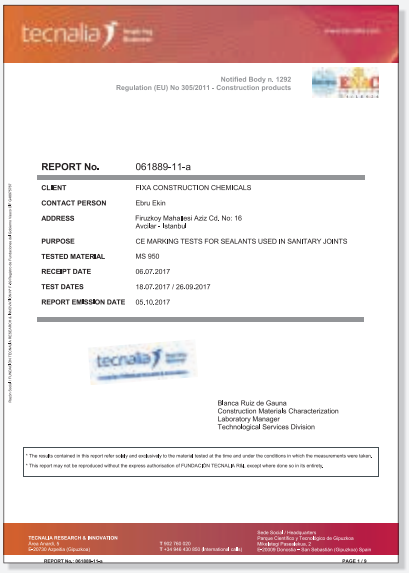
Notified Body n. 1292
Regulation (EU) No 305/2011 - Construction products

REPORT No. 061889-9-a

CLIENT	FIXA CONSTRUCTION CHEMICALS
CONTACT PERSON	Ebru Ekin
ADDRESS	Firuzkoy Mahallesi Aziz Cd, No: 16 Avcilar - Istanbul
PURPOSE	CE MARKING TESTS FOR SEALANTS USED IN FAÇADE ELEMENTS
TESTED MATERIAL	MS 950
RECEIPT DATE	06.07.2017
TEST DATES	18.07.2017 / 26.09.2017
REPORT EMISSION DATE	05.10.2017

Blanca Ruiz de Gauna
Construction Materials Characterization
Laboratory Manager
Technological Services Division



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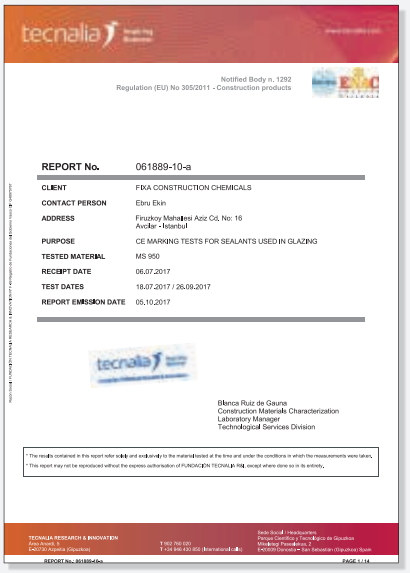
Notified Body n. 1292
Regulation (EU) No 305/2011 - Construction products

REPORT No. 061889-11-a

CLIENT	FIXA CONSTRUCTION CHEMICALS
CONTACT PERSON	Ebru Ekin
ADDRESS	Firuzkoy Mahallesi Aziz Cd, No: 16 Avcilar - Istanbul
PURPOSE	CE MARKING TESTS FOR SEALANTS USED IN SANITARY JOINTS
TESTED MATERIAL	MS 950
RECEIPT DATE	06.07.2017
TEST DATES	18.07.2017 / 26.09.2017
REPORT EMISSION DATE	05.10.2017

Blanca Ruiz de Gauna
Construction Materials Characterization
Laboratory Manager
Technological Services Division



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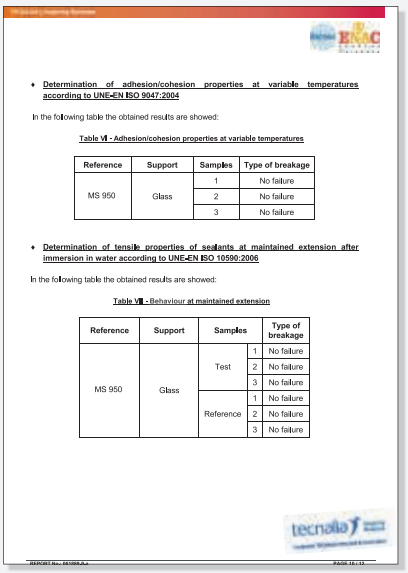
Notified Body n. 1292
Regulation (EU) No 305/2011 - Construction products

REPORT No. 061889-10-a

CLIENT	FIXA CONSTRUCTION CHEMICALS
CONTACT PERSON	Ebru Ekin
ADDRESS	Firuzkoy Mahallesi Aziz Cd, No: 16 Avcilar - Istanbul
PURPOSE	CE MARKING TESTS FOR SEALANTS USED IN GLAZING
TESTED MATERIAL	MS 950
RECEIPT DATE	06.07.2017
TEST DATES	18.07.2017 / 26.09.2017
REPORT EMISSION DATE	05.10.2017

Blanca Ruiz de Gauna
Construction Materials Characterization
Laboratory Manager
Technological Services Division



- **Determination of adhesion/cohesion properties at variable temperatures according to UNE-EN ISO 9047:2004**

In the following table the obtained results are showed:

Table VI - Adhesion/cohesion properties at variable temperatures

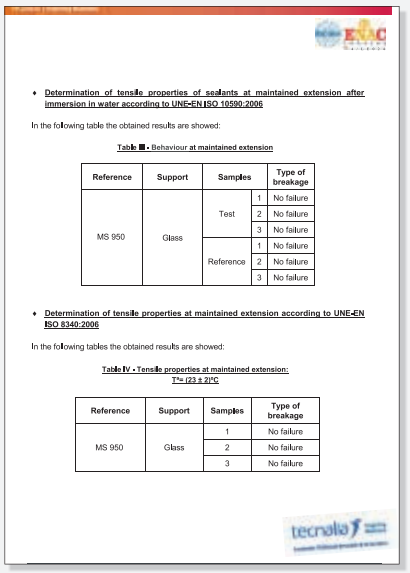
Reference	Support	Samples	Type of breakage
MS 950	Glass	1	No failure
		2	No failure
		3	No failure

- **Determination of tensile properties of sealants at maintained extension after immersion in water according to UNE-EN ISO 10590:2006**

In the following table the obtained results are showed:

Table VII - Behaviour at maintained extension

Reference	Support	Samples		Type of breakage
MS 950	Glass	Test	1	No failure
			2	No failure
			3	No failure
		Reference	1	No failure
			2	No failure
			3	No failure



- **Determination of tensile properties of sealants at maintained extension after immersion in water according to UNE-EN ISO 10590:2006**

In the following table the obtained results are showed:

Table III - Behaviour at maintained extension

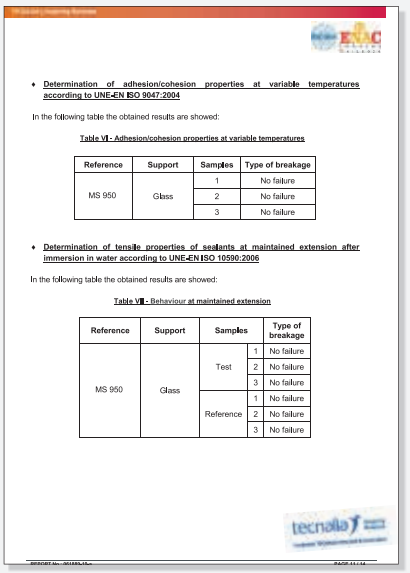
Reference	Support	Samples		Type of breakage
MS 950	Glass	Test	1	No failure
			2	No failure
			3	No failure
		Reference	1	No failure
			2	No failure
			3	No failure

- **Determination of tensile properties at maintained extension according to UNE-EN ISO 8340:2006**

In the following tables the obtained results are showed:

Table IV - Tensile properties at maintained extension:
T= (23 ± 2)ºC

Reference	Support	Samples	Type of breakage
MS 950	Glass	1	No failure
		2	No failure
		3	No failure



- **Determination of adhesion/cohesion properties at variable temperatures according to UNE-EN ISO 9047:2004**

In the following table the obtained results are showed:

Table VI - Adhesion/cohesion properties at variable temperatures

Reference	Support	Samples	Type of breakage
MS 950	Glass	1	No failure
		2	No failure
		3	No failure

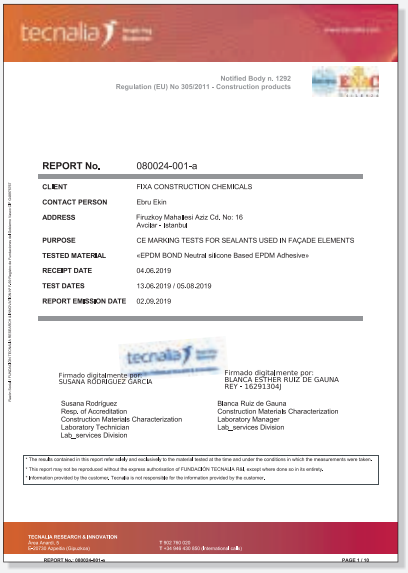
- **Determination of tensile properties of sealants at maintained extension after immersion in water according to UNE-EN ISO 10590:2006**

In the following table the obtained results are showed:

Table VII - Behaviour at maintained extension

Reference	Support	Samples		Type of breakage
MS 950	Glass	Test	1	No failure
			2	No failure
			3	No failure
		Reference	1	No failure
			2	No failure
			3	No failure

EPDM BOND Neutral Silicone Based EPDM Adhesive



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Notified Body n. 1292
Regulation (EU) No 305/2011 - Construction products

REPORT No. 080024-001-a

CLIENT	FIXA CONSTRUCTION CHEMICALS
CONTACT PERSON	Ebru Ekin
ADDRESS	Firuzkoy Mahallesi Aziz Cd, No: 16 Avcilar - Istanbul
PURPOSE	CE MARKING TESTS FOR SEALANTS USED IN FAÇADE ELEMENTS
TESTED MATERIAL	«EPDM BOND Neutral silicone Based EPDM Adhesive»
RECEIPT DATE	04.06.2019
TEST DATES	13.06.2019 / 05.08.2019
REPORT EMISSION DATE	02.09.2019

Firmado digitalmente por: SUSANA RODRIGUEZ GARCIA

Firmado digitalmente por: BLANCA ESTHER RUIZ DE GAUNA REY - 16291304J

Susana Rodriguez
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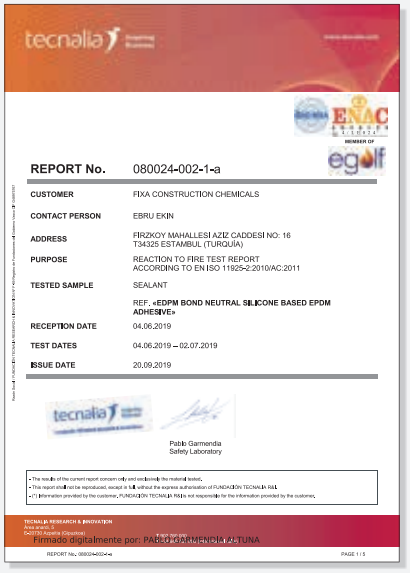

REPORT No. 080024-002-1-a

CUSTOMER	FIXA CONSTRUCTION CHEMICALS
CONTACT PERSON	EBRU EKIN
ADDRESS	FIRZKOY MAHALLESI AZIZ CADDESI NO: 16 T34325 ESTAMBUL (TURQUÍA)
PURPOSE	REACTION TO FIRE TEST REPORT ACCORDING TO EN ISO 11925-2:2010/AC:2011
TESTED SAMPLE	SEALANT
	REF. **«EDPM BOND NEUTRAL SILICONE BASED EPDM ADHESIVE»**
RECEPTION DATE	04.06.2019
TEST DATES	04.06.2019 – 02.07.2019
ISSUE DATE	20.09.2019

Pablo Garmendia
Safety Laboratory

REPORT No. 080024-002-2-a

CUSTOMER	FIXA CONSTRUCTION CHEMICALS
CONTACT	EBRU EKİN
ADDRESS	FIRZKOY MAHALLESI AZIZ CADDESI NO: 16 T34325 ESTAMBUL (TURQUÍA)
PURPOSE	REACTION TO FIRE CLASSIFICATION REPORT ACCORDING TO EN 13501-1:2018
TESTED SAMPLE	SEALANT
	REF. **«EDPM BOND NEUTRAL SILICONE BASED EPDM ADHESIVE»**
RECEPTION DATE	04.06.2019
TEST DATES	04.06.2019 – 02.07.2019
ISSUE DATE	20.09.2019

Pablo Garmendia
Safety Laboratory

FİXA®
CONSTRUCTION CHEMICALS

EN.00.2025.06 - 1500

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