Waterproofing Systems & Concrete and Mortar Admixtures

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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Products (Alphabetical Order)

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

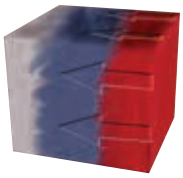
Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.10 kg/L
Service Temperature	: Between -20°C and +70°C

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®

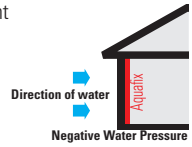
Crystallized Waterproofing Material

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.

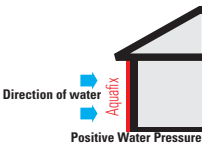


Penetration of AQUAFIX into the concrete to provide waterproofing

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.

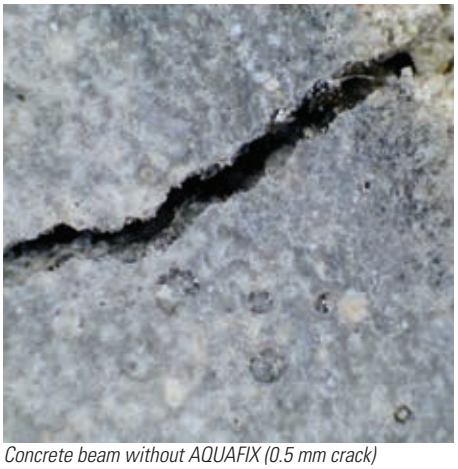
Consumption:

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

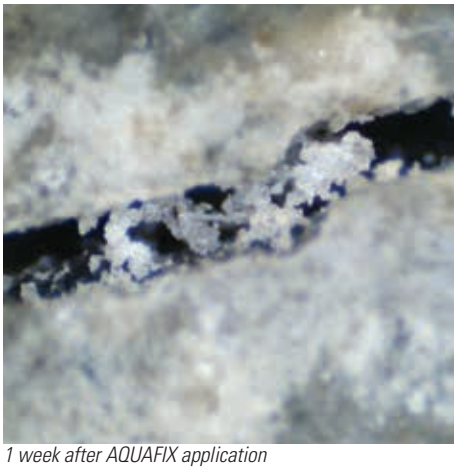
Packaging:
25 kg kraft bags

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

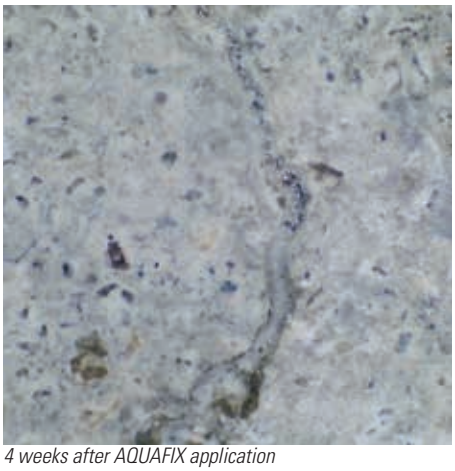
Technical Properties	
Appearance	: Grey or red colored fine powder
Powder Density	: ~ 1.20 kg/L
Water/Aquafix Mixing Ratio	: Shear Walls: 9 - 10 L water / 25 kg powder, Cold Joints: 6.5 - 7.5 L water / 25 kg powder
Resting Period	: 3 - 5 minutes
Pot Life	: 20 - 40 minutes
Setting Time	: 30 - 60 minutes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



Concrete beam without AQUAFIX (0.5 mm crack)



1 week after AQUAFIX application



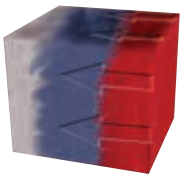
4 weeks after AQUAFIX application

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

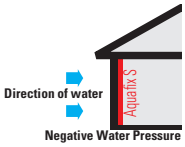
Description:
Cement based, **sulphate resistant**, **crystallized** waterproofing material that can be applied in both **positive** and **negative** hydrostatic pressure directions and becomes reactive with water and moisture. Penetrates in depth into the concrete, in reaction with the water, moisture 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.



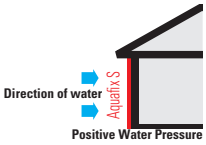
Penetration of AQUAFIX S into the concrete to provide waterproofing

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

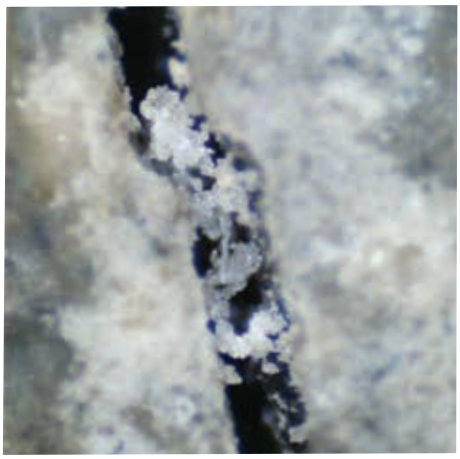
Description:
Cement and polymer emulsion based, double component, crystallized waterproofing material which can be applied in both **positive** and **negative** hydrostatic pressure directions. Due to its crystalline properties, it reacts with water, moisture and free lime present in the concrete structure, 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

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® 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.

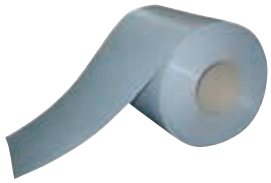
Application Areas:
- Indoor and outdoor,
- Swimming pools, water tanks and treatment facilities,
- Joints of foundation and shear wall,
- Manholes,
- Pipe inlet-outlets,
- Construction joints in cable canals,
- Tunnel segments,
- Joints of fresh and old concrete,
- Construction joints.

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		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

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.

FİXA®
CONSTRUCTION CHEMICALS

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