

# Waterproofing Systems & Concrete and Mortar Admixtures

## 2023



**FIXA<sup>®</sup>**  
CONSTRUCTION CHEMICALS





**FIXA**<sup>®</sup>  
CONSTRUCTION CHEMICALS

In today's world, modern buildings are meeting not only the housing needs of people but also respond to their aesthetics, comfort and safety needs. Technologically advanced buildings raise the living standards of their residents and ensure that they live a happy life. Construction chemicals play a key role in this comfort.

FIXA CONSTRUCTION CHEMICALS was founded in 2001 in Istanbul with the belief that advanced technology buildings can only be constructed with high technology chemicals.

FIXA is one of the leading companies in its industry with its investment in research and development. Today, FIXA Construction Chemicals has an annual capacity of 350,000 tons of powder and 5,000 tons of liquid chemical production in its 3 factories (Istanbul 2001, Adana 2009 and Ankara 2011). With its MS hybrid, polyurethane and silicone production facility completed in 2013, FIXA provides highest technology products to the Turkish construction industry.

IGLOO Thermal Insulation Systems, a subsidiary of FIXA, was established in Istanbul in 2011 and with an annual production capacity of 350,000 m<sup>3</sup>, it produces high quality white and grey EPS for the thermal insulation industry in Türkiye.

FIXA respects Quality Control Systems as well as R&D and continuous training, to keep the highest standards in production and meet customer needs and expectations. All raw and semi-finished materials which affect the product quality and the finished products are object to required controls before shipment. In addition to TSE and CE, FIXA also has the ISO 9001:2015 Quality Management System Certificate for its products as well as other quality control certificates demanded in many markets.

FIXA also offers service to its customers with expert and professional sales and support teams to ensure the right product usage and application.

FIXA considers all its dealers as its business partners. In addition to its large dealer network throughout the country, FIXA continuously increases its exports with the distributorship network it has established in more than 30 countries in 4 continents.

Today FIXA offers high quality products for the construction industries both in Türkiye and in the world, in 11 different groups: 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 in its fully automated production facilities in Istanbul, Ankara and Adana.



# OUR FACILITIES

## CONSTRUCTION CHEMICALS

### Istanbul Factory

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



### Adana Factory

Total Area	3,500 m <sup>2</sup>
Closed Area	2,500 m <sup>2</sup>
Production Capacity	80,000 ton/year (powder product)



### Ankara Factory

Total Area	7,200 m <sup>2</sup>
Closed Area	4,800 m <sup>2</sup>
Production Capacity	120,000 ton/year (powder product)



## EPS

### Istanbul Factory

Total Area	4,500 m <sup>2</sup>
Closed Area	5,000 m <sup>2</sup>
Production Capacity	350,000 m <sup>3</sup> /year (EPS)



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# WATERPROOFING SYSTEMS





## POLYMERA® MS MS Polymer Based Liquid Waterproofing

### 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 mixed chip panel, 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, garage 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<sup>2</sup> 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 (7 kg aluminum foiled package)
- 14 kg plastic buckets (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 26
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 MPa (EN 1542)
Elongation at Break	: > 200% (7 days)
Capillary Absorption and	: w < 0.1 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (EN 1062-3);
Water Permeability	: 0.018 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (TS 4045)
Film Formation Time	: 100 ± 30 minutes
Curing Rate	: 3 mm / 24 hours
Service Temperature	: -30°C / +80°C



## POLYMERA® MS FLUID MS Polymer Based Liquid Waterproofing

### 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 mixed chip panel, 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, garage 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<sup>2</sup> 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 (7 kg aluminum foiled package)
- 14 kg plastic buckets (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 visc. elastomeric fluid liquid coating
Color	: Pls. see the color chart on page 26
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 MPa (EN 1542)
Elongation at Break	: > 300% (7 days)
Capillary Absorption and	: w < 0.1 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (EN 1062-3);
Water Permeability	: 0.018 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (TS 4045)
Film Formation Time	: 150 ± 30 minutes
Curing Rate	: 2 mm / 24 hours
Service Temperature	: -30°C / +80°C



## AQUAMER® HB Hybrid Polymer Based Liquid Membrane and Coating

### Description:

Single component, ready-to-use, solvent and isocyanate free, UV resistant, high technology coating and waterproofing fluid 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 every surface, including mineral-based surfaces such as concrete, stone, marble, ceramic, tile, all kinds of wood, glass, metal, tile, brick, cement mixed chip panel, gas concrete and their combinations,
- Repairing cracks up to 2 mm,
- Wet areas such as bathrooms and kitchens,
- Places below ground level, such as foundation, garage and basement, 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, on wood and metal surfaces, in intersections of chimneys, ventilations and skylights where waterproofing is required.

### Advantages:

- **Has medium flexibility**, suitable for **light pedestrian traffic**. Keeps its elasticity and bonding properties in joints and cracks formed due to 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<sup>2</sup> (2 x 0.35 kg/m<sup>2</sup>) in 2 layers  
Absorbent surfaces (concrete, wood, natural stone):  
appr. 1.0 kg/m<sup>2</sup> (3 x 0.35 kg/m<sup>2</sup>) in 3 layers

### Packaging:

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

Technical Properties	
Appearance	: Low viscosity elastomeric liquid coating
Color	: Pls. see the color chart on page 26
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	: -30°C / +80°C



## AQUAMER® HB INVISIBLE

### Hybrid Polymer Based Transparent Coating and Liquid Membrane

#### Description:

Single component, ready-to-use, solvent and isocyanate free, UV resistant, high technology **transparent** coating and waterproofing fluid 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 upto 2 mm,
- Mosaics and mosaic tiles,
- Glass and glass brick,
- Metals such as iron, steel and aluminum,
- Roof coverings 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; enables waterproofing without damaging the existing coating and does not change the appearance of the coverings 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.
- Protects its elasticity even at low temperatures when cured.

#### Consumption:

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

#### Packaging:

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

Approved by METU Chemical Eng. Dept.  
 for drinking 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	: -30°C / +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:

- Groundwork and curtain walls,
- Dams, irrigation canals, swimming pools and cisterns,
- Concrete pipes, manholes and cisterns.

#### 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. Not poisonous. Ideal for potable water tanks.
- Is **reactive**, provides waterproofing during the service life of the building.

#### Consumption:

Under Foundations	Dry Sprinkle	3 kg/m <sup>2</sup>
Curtain Walls	Plaster	Positive water pressure: 2 kg/m <sup>2</sup> (2 layers) Negative water pressure: 2.5 kg/m <sup>2</sup> (2 layers)
Cold Joints	Slurry	3 kg/m <sup>2</sup>

#### Packaging:

5 kg tin cans  
 25 kg kraft bags

Approved by METU Chemical Eng. Dept.  
 for drinking 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	: Curtain Walls: 9 – 10 L water / 25 kg powder
Mixing Ratio	: Cold Joints: 6.5 – 7.5 water / 25 kg powder
Resting Period	: 3 - 5 minutes
Pot Life	: 15 - 35 minutes
Setting Time	: 30 - 60 minutes
Service Temperature	: -20°C / +70°C



## AQUAFIX® EXPAN

### High Strength Shrinkage Compensated Structural Waterproofing Repair Mortar

#### Description:

Cement-based, **crystallized** and **non-shrinking structural repair mortar** used used for filling rod holes, chamfering and segregation repairs on concrete surfaces that 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 rod holes and crossies,
- Repairs requiring early and high strength,
- Repairing segregated curtain concrete,
- Horizontal and vertical cold joint repairs and chamfering applications,
- Filling the gaps formed between old and new concrete,
- Filling the core gaps,
- Filling the spaces around the installation pipes and elements.

#### Advantages:

- Does not shrink, has a thixotropic consistency.
- Used both in structural repairment and waterproofing.
- Used on shear walls, chamfering applications and filling 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 adherence to concrete and reinforcement.
- Does not separate from repaired parts.
- Saves time in multi-length works as it is cured 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 leveling is easy, provides surface integrity.
- Does not segregate.

#### Consumption:

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

#### Packaging:

20 kg kraft bags

#### Technical Properties

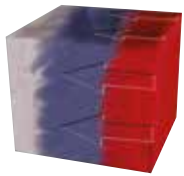
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.35 kg/l
Water Mixing Ratio	: 2.8 lt water / 20 kg powder
Resting Period	: 5 - 10 minutes
Pot Life	: 30 - 45 minutes
Application Temperature	: Between +5°C and +35°C
Compressive Strength	: 1 day : ≥ 20 N/mm <sup>2</sup> (EN 12190) 7 days : ≥ 30 N/mm <sup>2</sup> (EN 12190) 28 days : ≥ 50 N/mm <sup>2</sup> (EN 12190)
Setting Time	: ~ 40 minutes
Curing Time	: ~ 2 - 3 days



## 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 spaces and pores.

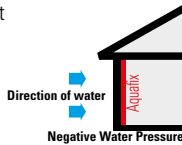


Penetration of Aquafix into the concrete to provide waterproofing

### Application Areas:

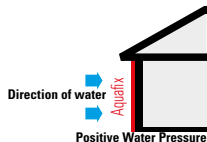
#### Negative Water Pressure:

- 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:

- Groundwork and curtain walls,
- Water tanks (from both interior and exterior positive waterproofing of the water tanks that are underground),
- Swimming 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 concrete surface and penetrates in depth into the concrete. Minerals formed after its reaction fill the capillary spaces. It insulates 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 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 its application, water curing is sufficient.
- AQUAFIX slurry application is extremely easy and effective against the insulation problem that will occur in horizontal joints.
- 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, moisture and sulphate into the concrete.
- Protects the concrete from chemical and physical damages caused by sulfate attacks, prevents the corrosion of reinforcement.
- Penetrates the concrete and does not form an insulating layer, XPS, drainage board and protection wall are not required before backfilling.
- Air and water permeable, allows the structure to breathe. Prevents moisture and odor.
- Can be applied on unset concrete, new concrete and old concrete.
- Is not affected from UV and oxidation.
- Saves time and labor, is economical.
- Resistant to freeze - thaw cycle
- Not poisonous. Ideal for potable water tanks.

### Consumption:

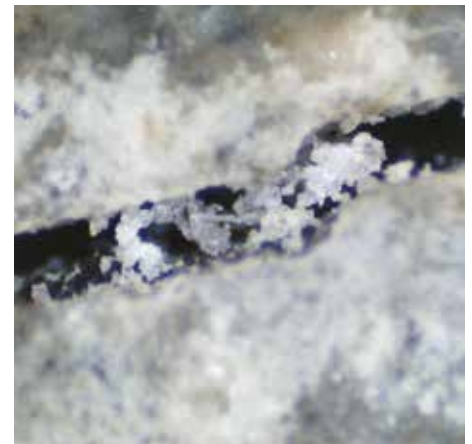
Under Foundations	Dry Sprinkle	3 kg/m <sup>2</sup>
Curtain Walls	Plaster	Positive water pressure: 2 kg/m <sup>2</sup> (2 layers)
		Negative water pressure: 2.5 kg/m <sup>2</sup> (2 layers)
Cold Joints	Slurry	3 kg/m <sup>2</sup>

### Packaging:

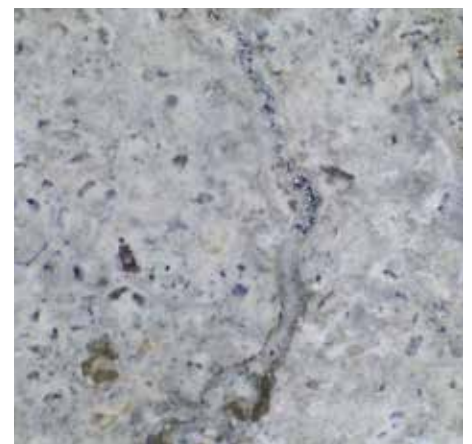
25 kg kraft bags



Concrete beam without AQUAFIX (0.5 mm crack)



1 week after AQUAFIX application



4 weeks after AQUAFIX application

Approved by METU Chemical Eng. Dept.  
for drinking 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 Rate: Curtain Walls	: 9 - 10 L water / 25 kg powder, Cold Joints: 6.5 - 7.5 water / 25 kg powder
Resting Period	: 3 - 5 minutes
Pot Life	: 20 - 40 minutes
Setting Time	: 30 - 60 minutes
Service Temperature	: -20°C / +70°C



## AQUAFIX® S

### Sulphate Resistant Crystallized Waterproofing Material

#### Description:

Cement based, **sulfate resistant, crystallized** mortar in powder form 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 iron reinforcement from the corrosion.



Penetration of Aquafix S into the concrete to provide waterproofing

#### Adverse effects of sulfate for concrete

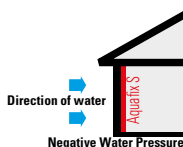
Sulphate attack is a common form of deterioration and occurs when concrete comes into contact with sulfate ( $SO_4$ )-containing water. It causes both physical and chemical deterioration in concrete. Sulfate:

- Reduces the strength of concrete
- It causes a hollow structure by losing its impermeability to the concrete. Therefore, it causes corrosion of the reinforcement.
- It causes many other problems in terms of aesthetics.

#### Application Areas:

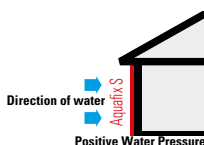
##### Negative Water Pressure:

- Reinforced concrete buildings for which sulphate causes risks,
- Interior waterproofing of basement walls and grounds,
- Exterior waterproofing of water tanks which are not in the ground,
- Retaining walls,
- Tunnels and subways,
- Floors and horizontal joint,
- Elevator pits.



##### Positive Water Pressure:

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



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

#### Advantages:

- Since it fills the capillary gaps and the cracks up to 0.5 mm in the concrete, it prevents the penetration of water, moisture and sulfate into the concrete. It prevents **reinforcement corrosion** by protecting concrete from chemical and physical damages caused by **sulfate attacks**.
- Applied from the direction of both **positive** and **negative** hydrostatic pressure.
- Continues to react with water molecules throughout the life of the reinforced concrete and provides waterproofing during the service life of the structure since it is reactive.
- Sub-foundation spreading 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 gray 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 grout 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.
- Air and water vapor permeable, the concrete breathes. It prevents the formation of dampness and odor.
- Can be applied to concrete that has not yet set, to new and old concrete.
- Not affected by UV rays and oxidation.
- Economical as it saves time and labor.
- Resistant to freeze - thaw cycle.
- Not poisonous. Ideal for potable water tanks.

#### Consumption:

Under Foundations	Dry Sprinkle	3 kg/m <sup>2</sup>
Curtain Walls	Plaster	Positive water pressure: 2 kg/m <sup>2</sup> (2 layers) Negative water pressure: 2.5 kg/m <sup>2</sup> (2 layers)
Cold Joints	Slurry	3 kg/m <sup>2</sup>

#### Packaging:

25 kg kraft bags

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#### Technical Properties

Appearance	: Red and grey colored fine powder
Powder Density	: ~ 1.20 kg/L
Water/Aquafix Mixing Rate: Curtain Walls	: 9 - 10 L water / 25 kg powder, Cold Joints: 6.5 - 7.5 water / 25 kg powder
Resting Period	: 3 - 5 minutes
Pot Life	: 20 - 40 minutes
Setting Time	: 30 - 60 minutes
Service Temperature	: -20°C / +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 concrete surface and penetrates in depth into the concrete. Minerals formed after its reaction fill the capillary spaces and it insulates 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 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 will prevent the penetration of water and moisture into the concrete.
- Allows the concrete to breath as it is air and water vapor permeable. Prevents moisture and odor.
- Is not affected from UV and oxidation.
- Saves time and labor, is economical.
- Resistant to freeze - thaw cycle.

#### Consumption:

Under foundations (dry sprinkle) 2 – 3 kg/m<sup>2</sup>

#### Packaging:

20 kg kraft bags

#### Technical Properties

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



## AQUAFIX® LIKIT C

### Concentrated Crystallized Capillary Waterproofing Additive for Concrete

#### Description:

**Concentrated, crystallized** waterproofing **liquid** additive with reactive properties which forms needle-tipped 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 chemicals that may damage the concrete such as water, moisture, sulfate and chloride ions,
- Foundation and curtain concrete,
- Bored pile foundation,
- Wells and purification Factories,
- 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 clumping.
- Does not affect the slump value and workability of the concrete.
- Prevents the penetration of water, moisture and sulfate into the concrete as it fills the capillary gaps and the cracks up to 0.5 mm. Protects the concrete from chemical and physical damages caused by sulfate 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 iron 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 curtain concrete insulation.
- Can be used with all cement types produced in accordance with ASTM and EN standards. It is also compatible with slag and pozzolanas such as fly ash, GGBS and silica fume.
- Air and water vapor permeable, allows the concrete to breathe. Prevents damp smell 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<sup>3</sup> of concrete.

#### Packaging:

30 kg plastic jerry cans and 200 kg barrels

Technical Properties	
Appearance	: Light brown colored liquid
Liquid Density	: ~ 1,15 kg/lit (20°C)
Corrosive Behavior	: Not Corrosive
Chlorine Ion Content	: < %0,1
Application Temperature	: All weather conditions suitable for pouring concrete
Working Time Inside The Mixture	: 50 minutes

## AQUAFIX® LIKIT

### Crystallized Capillary Waterproofing Additive for Concrete

#### Description:

**Crystallized** waterproofing **liquid** additive with reactive properties which forms needle-tipped 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 chemicals that may damage the concrete such as water, moisture, sulfate and chloride ions,
- Foundation and curtain concrete,
- Bored pile foundation,
- Wells and purification Factories,
- Potable and waste water tanks,
- Elevator pits,
- Swimming pools,
- Dams and irrigation channels,
- Concrete pipes,
- Tunnels, subways and culverts,
- Cisterns,
- Retaining walls,
- Underground car,
- 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 clumping.
- Prevents the penetration of water, moisture and sulfate into the concrete as it fills the capillary gaps and the cracks up to 0.5 mm. Protects the concrete from chemical and physical damages caused by sulfate 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 iron 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 curtain concrete insulation.
- Can be used with all cement types produced in accordance with ASTM and EN standards. It is also compatible with slag and pozzolanas such as fly ash, GGBS and silica fume.
- Air and water vapor permeable, allows the concrete to breathe. Prevents damp smell 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<sup>3</sup> of concrete.

#### Packaging:

30 kg plastic jerrycans and 200 kg barrels

Technical Properties	
Appearance	: Light brown colored liquid
Liquid Density	: ~ 1,13 kg/lit (20°C)
Corrosive Behavior	: Not Corrosive
Chlorine 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 isolation and repair 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 leakages before waterproofing,
- Repair of static cracks,
- Groundworks,
- Plugging tie rod gaps inside molds,
- Waterproofing of basements from inside,
- Beveling 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, nonpoisonous.
- Does not contain chlorine, does not corrode iron reinforcement.

#### Consumption:

Appr. 2 kg for 1 L of volume

#### Packaging:

5 kg plastic buckets

Technical Properties	
Appearance	: Grey colored fine powder
Powder Density	: ~ 1.10 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 <sup>2</sup> (TS EN 12190) 24 hours ≥ 10 N/mm <sup>2</sup> (TS EN 12190) 28 days ≥ 30 N/mm <sup>2</sup> (TS EN 12190)



## 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 vibration 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 excavations,
- 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 14891). Its crack bonding 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 highly performing waterproofing.
- Elastic, does not shrink or crack.
- Water vapor permeable, allows the concrete to breathe.
- Non-poisonous, 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<sup>2</sup> on each layer, in 1 mm thickness.  
It is recommended to apply minimum 2 layers (2.5 - 3 kg/m<sup>2</sup>).  
For stronger protection, it is recommended to apply 3 layers (3.75 - 4.5 kg/m<sup>2</sup>).

### 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: ~1.07 kg/L
Mixture 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 bars negative (EN 14891)
Tensile Adhesion Strength	: ≥ 1 N/mm <sup>2</sup> (EN 1348) (28 days)
Capillary Absorption and Water Permeability	: w < 0.1 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (EN 1062-3); 0.018 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (TS 4045)
Resting Period	: 3 - 5 minutes
Time to Use	: Mechanical Strength: 3 days, Waterproofness: 7 days
Time to Cover	: 3 days
Service Temperature	: -20°C / +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 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 water impermeability.
- Very flexible, does not shrink or crack.
- Water vapor permeable, allows the concrete to breathe.
- Non-poisonous, 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<sup>2</sup> on each layer for 1 mm thickness. It is recommended to apply minimum 2 layers (3.5 kg/m<sup>2</sup>).  
For higher protection, it is recommended to apply 3 layers (4.5 - 5.5 kg/m<sup>2</sup>).

### Packaging:

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

Approved by METU Chemical Eng. Dept. for drinking water contact compatibility Report no: 2009.03.04.718/02	
Technical Properties	
Appearance	: A: Grey colored fine powder B: White colored liquid
Density	: A: ~1.30 kg/L B: ~1.03 kg/L
Mixture 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 Absorption and Water Permeability	: w < 0.1 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (EN 1062-3); 0.018 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (TS 4045)
Resting Period	: 3 - 5 minutes
Time to Use	: Mechanical Strength: 3 days, Waterproofness: 7 days
Time to Cover	: 3 days
Service Temperature	: -20°C / +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 ceramics, granite and covering materials.

### Advantages:

- Easy to apply on horizontal and vertical surfaces with a brush, roller, trowel or spraying machine.
- Provides seamless and jointless waterproofing.
- Provides highly performing waterproofing.
- Elastic, does not shrink or crack.
- Water vapor permeable, allows the concrete to breathe.
- Non-poisonous, 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 kg/m<sup>2</sup> on each layer, in 1 mm thickness.  
It is recommended to apply minimum 2 layers (2 kg/m<sup>2</sup>).  
For stronger protection, it is recommended to apply 3 layers (3 - 4 kg/m<sup>2</sup>).

### Packaging:

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

Approved by METU Chemical Eng. Dept. for drinking water contact compatibility Report no: 2009.03.04.718/02	
Technical Properties	
Appearance	: A: Grey colored fine powder B: White colored liquid
Density	: A: ~1.30 kg/L B: ~1.03 kg/L
Mixture 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 Absorption and Water Permeability	: w < 0.1 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (EN 1062-3); 0.018 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (TS 4045)
Resting Period	: 3 - 5 minutes
Time to Use	: Mechanical Strength: 3 days, Waterproofness: 7 days
Time to Cover	: 3 days
Service Temperature	: -20°C / +80°C



Application instructions and technical data provided for the products are obtained in line with our experience and the tests are implemented 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.
- Waterproof and semi-elastic.
- Water vapor permeable, allows the concrete to breathe.
- Non-poisonous, 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<sup>2</sup> on each layer in 1 mm thickness. It is recommended to apply minimum 2 layers (2 - 3 kg/m<sup>2</sup>). For stronger protection, it is recommended to apply 3 layers (3 - 4.5 kg/m<sup>2</sup>).

### Packaging:

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

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

Technical Properties	
Appearance	: A: Grey colored fine powder B: White colored liquid
Density	: A: ~1.40 kg/L B: ~1.02 kg/L
Mixture Ratio	: 5.4 kg liquid / 20 kg powder
Pot Life	: 30 minutes
Application Temperature	: Between +5°C and +35°C
Flexibility	: Medium
Resistance to Pressurized Water	: 2 bars positive (DIN 1048)
Capillary Absorption and	: $w < 0.1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$ (EN 1062-3);
Water Permeability	: $0.018 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$ (TS 4045)
Resting Period	: 3 - 5 minutes
Time to Use	: Mechanical Strength: 3 days Waterproofness: 7 days
Time to Cover	: 3 days
Service Temperature	: -10°C / +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,
- Groundwork, retaining walls and basement waterproofing,
- 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 highly performing waterproofing.
- Water vapor permeable, allows the concrete to breathe.
- Non-poisonous, 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 - 1.5 kg/m<sup>2</sup> on each layer in 1 mm thickness. It is recommended to apply minimum 2 layers. If the application will be uncovered, It is recommended to apply 3 layers (3 - 4.5 kg/m<sup>2</sup>).

### Packaging:

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

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

Technical Properties	
Appearance	: A: White colored fine powder B: White colored liquid
Density	: A: ~1.35 kg/L B: ~1.03 kg/L
Mixture 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 Absorption and	: $w < 0.1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$ (EN 1062-3);
Water Permeability	: $0.018 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$ (TS 4045)
Resting Period	: 3 - 5 minutes
Time to Use	: Mechanical Strength: 3 days Waterproofness: 7 days
Time to Cover	: 3 days
Service Temperature	: -20°C / +80°C



## AQUACEMENT® 2K 207 Component B Acrylic Based Admixture for Ceramic Adhesives and Waterproofing Materials

### Description:

**Acrylic** based component B of **AQUACEMENT 2K 207 Double Component Super Elastic Waterproofing Material**. It is mixed into the waterproofing materials or ceramic adhesives to provide waterproofing, elasticity and high adherence.

### Application Areas:

- Indoor and outdoor,
- Horizontal and vertical applications,
- Floor heating systems or outdoor applications by mixing in cement based tile adhesives,
- Thermal springs, potable water tanks and swimming pools,
- Facade coverings,
- Bonding ceramics on ceramics, to increase adherence by replacing the water into to mortar.

### Advantages:

- Very high adhesive performance.
- Provides high stability, does not cause sagging in vertical applications.
- High elasticity.
- Provides a waterproof layer under screeds and ceramics.
- Provides resistance to high and low temperatures.
- Strengthen adherence both in absorbent and non-absorbent surfaces.

### Consumption:

Mixing Ratios	AQUACEMENT® 2K 207 Component B	Water	Total Liquid
AQUACEMENT® 2K 207 Component A (20 kg)	7 kg	-	7 kg
Tile and Ceramic Adhesive Mortars (25 kg)	2 kg	4.0 - 5.5 L	6.0 - 7.5 kg
Granite Ceramic Adhesive Mortars (25 kg)	2 kg	3.5 - 5.0 L	5.5 - 7.0 kg

### Packaging:

Component B: 7 kg plastic jerrycans

Technical Properties	
Appearance	: White colored liquid
Liquid Density	: ~ 1.03 kg/L
Application Temperature	: Between +5°C and +35°C
Flexibility	: Very good
Service Temperature	: -20°C / +80°C





## AKRILAN® 600

### Acrylic Based 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, gutters, eaves, drains,
- 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 water based paints.
- **Resistant to UV.**
- Can be produced in various colors upon request.
- Does not form joint.
- Does not contain solvent, nonpoisonous. Suitable for use in contact with potable water.

**Consumption:**

1.4 kg/m<sup>2</sup> on each layer, in 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



## 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 over painted with water based paints.
- Can be produced in various colors upon request.
- Does not form joint.
- Does not contain solvent, nonpoisonous. Suitable for use in contact with potable water.

**Consumption:**

1.4 kg/m<sup>2</sup> on each layer, in 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



## AQUALON®

### Colorless Surface Protector and Water Repellent

**Description:**  
**Silicone** based, solventborne **colorless surface protector** and **water repellent** 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 due to its fast water repellent property.
- 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.
- Prevents the surface from discoloring.
- Prevents dusting.

**Consumption:**

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

**Packaging:**

5 L and 17 L tin cans

Approved by METU Chemical Eng. Dept.  
 for drinking 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 Absorption and	
Water Permeability	: w < 0.1 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (EN 1062-3)
CO <sub>2</sub> Permeability	: CO <sub>2</sub> S <sub>D</sub> > 50 m (EN 1062-6)
Water Vapor Permeability	: Class I S <sub>D</sub> < 5 (EN ISO 7783-2)
Waiting Time Between Layers	: 4 hours (20°C)
Time to Use	: 5 - 7 days
Service Temperature	: -20°C / +80°C

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 Absorption and	
Water Permeability	: w < 0.1 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (EN 1062-3)
CO <sub>2</sub> Permeability	: CO <sub>2</sub> S <sub>D</sub> > 50 m (EN 1062-6)
Water Vapor Permeability	: Class I S <sub>D</sub> < 5 (EN ISO 7783-2)
Waiting Time Between Layers	: 5 hours (20°C)
Time to Use	: 5 - 7 days
Service Temperature	: -20°C / +80°C

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	: -20°C / +80°C



Application instructions and technical data provided for the products are obtained in line with our experience and the tests are implemented 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.



## 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. Waterbourne, does not contain solvent.

### Application Areas:

- Interior and exterior facades of buildings, preferably vertical surfaces,
- Repelling the water in joints of covering 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<sup>2</sup> (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	: -20°C / +80°C



## 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,
- On horizontal and vertical surfaces,
- As a primer prior to the application of any type of bitumen based membrane or bitumen based liquid cold applied waterproofing material.

### Advantages:

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

### Consumption:

250 g/m<sup>2</sup> 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



## 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 set 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 thermal insulation panels to bitumen based membranes,
- Underneath the coatings in terrace insulation.

### Advantages:

- Can be used as a primer when thinned with water.
- Does not contain solvent, environment friendly.
- Safe to use indoor since it does not contain flammable and poisonous 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<sup>2</sup> 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	: ~ 1.05 kg/L
Application Temperature	: Between +5°C and +35°C
Solid Content	: 50 - 55%
Softening Temperature	: +70°C
Drying Time	: Dry to Touch: 60 minutes Complete Drying: 5 - 6 hours Test: 8 days



## 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. BITUMFIX ER 2K is a thixotropic material which is flexible after curing and has high adherence properties and long aging time.

### Application Areas:

- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Protecting and isolating groundwork, retaining walls and curtain walls,
- Places such as basement and cellars,
- Underneath the coatings in terrace insulation.

### Advantages:

- Economical.
- Provides good adherence on dry and slightly moist surfaces.
- Offers high performance in waterproofing.
- Permanently elastic, fills capillary cracks.
- Provides seamless and jointless waterproofing.
- 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 shrinkage 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<sup>2</sup> on each layer (with trowel)

Usage Areas	Dry Film (mm)	Consumption (kg/m <sup>2</sup> )
Areas exposed to ground moisture	3	4.5
Temporary isolation against pressurized water	3	4.5
Areas exposed to continuous pressurized water	4	6

### Packaging:

Sets of 30 kg plastic buckets (Liquid component in plastic bucket of 22 kg and powder in bag of 8 kg)

### Technical Properties

Appearance	: A: Brown polymer modified bitumen rubber (black after drying) B: Cement based gray powder
Density	: A: ~ 1.05 kg/L, B: ~ 1.45 kg/L
Mixture Density	: ~ 1.15 kg/L
Mixture Ratio	: 22 kg liquid / 8 kg powder Solid Ratio 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
Service Temperature	: -10°C / +80°C

## BITUMFIX® ER 2K Pro

**Bitumen - Rubber and Cement Based  
Double Component Waterproofing Material**

### Description:

**Polymer modified bitumen rubber based, cement cured**, double component, elastic and waterborne waterproofing material. BITUMFIX ER 2K Pro is a thixotropic material which is flexible after curing and has high adherence properties and long aging time.

### Application Areas:

- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Protecting and isolating groundwork, retaining walls and curtain walls,
- Places such as basement and cellars,
- Underneath the coatings in terrace insulation.

### Advantages:

- Economical.
- Provides good adherence on dry and slightly moist surfaces.
- Offers high performance in waterproofing.
- Permanently elastic, fills capillary cracks.
- Provides seamless and jointless waterproofing.
- 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 shrinkage cracks easily.
- Thermal insulation boards such as EPS, XPS can be bonded directly on BITUMFIX ER 2K Pro.
- Cold applied, dries quickly.

### Consumption:

1 - 1.5 kg/m<sup>2</sup> on each layer (with trowel)

Usage Areas	Dry Film (mm)	Consumption (kg/m <sup>2</sup> )
Areas exposed to ground moisture	3	4.5
Temporary isolation against pressurized water	3	4.5
Areas exposed to continuous pressurized water	4	6

### 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 (black after drying) B: Cement based gray powder
Density	: A: ~ 1.15 kg/L, B: ~ 1.45 kg/L
Mixture Density	: ~ 1.20 kg/L
Mixture Ratio	: 24 kg liquid / 8 kg powder Solid Ratio 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
Service Temperature	: -10°C / +80°C

## BITUMFIX® PU 1K

**Bitumen and Polyurethane Based  
Single Component Waterproofing Material**

### Description:

**Bitumen - polyurethane based, single component**, protective waterproofing material. 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, roofing material made of cement and metal,
- Waterproofing the foundation and shear walls of reinforced concrete structures against ground moisture and seepage water,
- Canals, flumes and rain creeks (excluding PVC based rain gutters),
- Underneath the coatings in waterproofing of balconies, terraces and green roofs.

### Advantages:

- Single component, 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 many years of 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 and jointless waterproofing.
- Covers shrinkage cracks easily, elastic.
- Resistant to Factory roots.

### Consumption:

1 - 1.5 kg/m<sup>2</sup> on each layer (Recommended to apply at least two layers)

### Packaging:

25 kg metal buckets

### Technical Properties

Appearance	: Black colored emulsion
Liquid Density	: ~ 1.40 kg/L
Application Temperature	: Between +5°C and +35°C
Viscosity	: 2500 - 3500 cP (25°C)
Solid Ratio	: ~ 86%
Bonding to Concrete	: ~ 3 N/mm <sup>2</sup>
Tensile Strength	: ~ 9 N/mm <sup>2</sup>
Elongation at Break	: 1000 % (20°C)
Water Vapor Permeability	: 25.8 g/(m <sup>2</sup> .d) (TS EN ISO 7783:2011)
Hardness (Shore A)	: 65
Dry Time Between Layers	: ~ 12 hours
Walking Time	: ~ 72 hours
Service Temperature	: -36°C / +86°C



## BITUMFIX® PU 2K

### Bitumen and Polyurethane Based Double Component Waterproofing Material

#### Description:

**Bitumen - polyurethane based, double component,** protective, super elastic waterproofing material. 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, roofing material made of cement and metal,
- Waterproofing the foundation and shear walls of reinforced concrete structures against ground moisture and seepage water,
- Bridges, canals, flumes and rain creeks (excluding PVC based rain gutters),
- Waterproofing of retaining walls and isolation of water tanks from outside,
- Underneath the coatings in waterproofing of balconies, terraces and green roofs.

#### Advantages:

- Packaging ratios makes mixing easy.
- Does not swell even when applied thick.
- Cures fast.
- 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 and jointless waterproofing.
- Resistant to Factory roots.

#### Consumption:

1 - 1.5 kg/m<sup>2</sup> on each layer (Recommended to apply at least two layers. Consumption varies depending on the absorption and roughness of the surface)

#### Packaging:

Component A: 9 kg metal buckets  
Component B: 9 kg metal buckets

Technical Properties	
Appearance	Component A: Black colored emulsion Component B: Transparent viscous liquid
Density	Component A: 1.15 kg/L Component B: 1.0 kg/L
Application Temperature	: Between +5°C and +35°C
Bonding to Concrete	: 1 N/mm <sup>2</sup>
Tensile Strength	: 6 N/mm <sup>2</sup>
Elongation at Break	: 1200 % (20°C)
Water Vapor Permeability	: 2.55 g/(m <sup>2</sup> .d) (TS EN ISO 7783:2011)
Hardness (Shore A)	: 40
Dry Time Between Layers	: ~ 60 minutes
Pot Life	: 30 - 45 minutes (20°C)
Drying Time	: 4 - 6 hours (ASTM C 679-03)
Walking Time	: ~ 48 hours
Service Temperature	: -36°C / +86°C

## POLAN® A

### Polyurethane Floor Primer

#### Description:

**Polyurethane** based, single component, solventborne, transparent and ready to use **primer** which dries fast and is 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 adherence increasing primer on floors, under polyurethane, MS or hybrid based waterproofing materials, floor coverings 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 nonstructural capillary cracks on concrete or similar surfaces, penetrates deeply. Increases both physical and chemical integration, provides longer lasting adhesion and permanency.
- Forms bonds between gaps on the surface and provides a holistic adhesion between the product and the surface.
- Single component, solventborne. 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, aliphatic solvents, gasoline and mineral oils.
- Reduces the consumption of the last layer coating by filling the gaps on the surface and provides a more even appearance of the fine coating.

#### Consumption:

150- 300 g/m<sup>2</sup> in single layer (Varies depending on the absorption and roughness of the surface)

#### Packaging:

4 kg and 15 kg tin cans

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

## 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 plate, metal,
- Waterproofing of terrace roofs, concealed gutters,
- Waterproofing of water tanks and cisterns (except contact with potable water),
- 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 as it is made of **UV** resistant resins. 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 ratio.
- Resistant to Factory 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 gr/m<sup>2</sup> 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 cans

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 Ratio	: ~ 90%
Bond Strength by Pull-off	: ≥ 0.8 N/mm <sup>2</sup> (TS EN 1542)
Elongation at Break	: > 600% 7 days (DIN 53504)
Tensile Strength	: 2.30 N/mm <sup>2</sup>
100% Modulus	: 2.10 N/mm <sup>2</sup>
Hardness (Shore A)	: 65 (7 days)
Walk-on Time	: 8 - 12 hours (+23°C)
Service Temperature	: -30°C / +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, swimming pools.

#### Advantages:

- Safe to use indoor since it is solvent free. Does not mix to 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), gasoline and mineral oils.
- Resistant to aging.

#### Consumption:

600 g/m<sup>2</sup> on each layer (Minimum 2 layers are recommended.)

#### Packaging:

Component A: 5 kg tin cans  
Component B: 1 kg tin cans

Approved by METU Chemical Eng. Dept.  
for drinking 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
Mixture 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	: -30°C / +90°C



## POLAN® 600 INVISIBLE

### Polyurethane Transparent Coating and Waterproofing Material

#### Description:

**Transparent, UV resistant**, single component, **polyurethane** based, ready-to-use, elastic, walkable, solventborne, liquid top coat and waterproofing material.

#### Application Areas:

- Outdoor,
- Provides waterproofing at balconies and terraces with light pedestrian traffic and which are coated with materials such as glazed tile, ceramic, natural stone, marble, and floor tiles, without changing the appearance,
- 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<sup>2</sup> on each coat (Varies depending on the absorption and roughness of the surfaces.) Minimum 2 layers are applied.

#### Packaging:

2.5 kg and 10 kg tin cans

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	: -30°C / +80°C



## POLAN® 700

### Pure Polyurea Coating and Waterproofing Material

#### Description:

**100% 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 vehicular traffic, parking lot and garage floors,
- Waterproofing of canals, tunnels, pipelines, water tanks, potable water tanks,
- Industrial zones, factory floors,
- Protection of middle and large size parts in metal industry against corrosion,
- Coating of load bearing surfaces in commercial vehicles,
- Waterproofing of decorative pools and swimming pools.

#### Advantages:

- Environmental 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, applies easily.
- Provides seamless and jointless waterproofing.
- Offers solution for hard to reach places such as corners.
- Strongly adheres to the surface.
- Resistant to chemicals and corrosion.
- Has high tear strength.
- Mechanically resistant, convenient for use in harsh conditions.
- Resistant to abrasion and scratches.

#### Consumption:

1.1 - 1.2 kg/m<sup>2</sup> 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	: Component A: Light yellow liquid Component B: Grey colored liquid
Density	: Component A: 1.10 - 1.12 kg/L Component B: 1.00 - 1.05 kg/L (ASTM D 4052)
Mixture Ratio (A-B)	: In weight: 110 Component A, 100 Component B In volume: 100 Component A, 100 Component B
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 Ratio	: 100%
Tensile Strength	: 15 - 20 N/mm <sup>2</sup> (ASTM D 412)
100% Modulus	: 5 - 8 N/mm <sup>2</sup> (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	: -40°C / +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 vehicular traffic, parking lot and garage floors,
- Waterproofing of canals, tunnels, pipelines, water tanks, potable water tanks,
- Industrial zones, factory floors,
- Protection of middle and large size parts in metal industry against corrosion,
- Coating of load bearing surfaces in commercial vehicles,
- Waterproofing of decorative pools and swimming pools.

#### Advantages:

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

#### Consumption:

1.1 - 1.2 kg/m<sup>2</sup> 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	: Component A: Light yellow liquid Component B: Grey colored liquid
Density	: Component A: 1.10 – 1.12 kg/L Component B: 1.00 – 1.05 kg/L (ASTM D 4052)
Mixture Ratio (A-B)	: In weight: 110 Component A, 100 Component B In volume: 100 Component A, 100 Component B
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 Ratio	: 100%
Tensile Strength	: 10 - 15 N/mm <sup>2</sup> (ASTM D 412)
100% Modulus	: 3 - 5.5 N/mm <sup>2</sup> (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	: -20°C / +120°C



## POLAN® 750

### Hybrid Polyurea 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 of floors open to light pedestrian traffic,
- Waterproofing of canals, tunnels, pipelines, water tanks, potable water tanks,
- Protection of middle and large size parts in metal industry against corrosion,
- Coating of load bearing surfaces in commercial vehicles,
- Waterproofing of decorative pools and swimming pools.

#### Advantages:

- Environmental friendly, solvent free.
- Elastic.
- Allows application in horizontal and vertical surfaces.
- Cures fast, applies 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, convenient for use in harsh conditions.

#### Consumption:

1.1 - 1.2 kg/m<sup>2</sup> 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	: Component A: Light yellow liquid Component B: Grey colored liquid
Density	: Component A: 1.10 – 1.12 kg/L Component B: 1.00 – 1.05 kg/L (ASTM D 4052)
Mixture Ratio (A-B)	: In weight: 73 Component A, 100 Component B In volume: 70 Component A, 100 Component B
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 Ratio	: 98 - 100%
Tensile Strength	: 7 N/mm <sup>2</sup> (ASTM D 412)
100% Modulus	: 2 - 3 N/mm <sup>2</sup> (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	: -20°C / +120°C



## IMPERMO® PVC

### Waterproofing Tape

#### Description:

**Elastic, thermoplastic** elastomer based **joint waterproofing tape** with **polyester** knit fabric, isolating construction and dilatation joints.

#### Application Areas:

- Indoor and outdoor,
- Wet areas such as pools, water tanks, bathrooms and WC, 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,
- Isolating dynamic (moving) cracks and construction joints on floors and curtain 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.

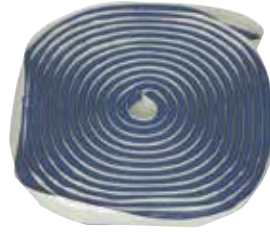
#### Consumption:

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)
Extension Break Longitudinal	: 29% (DIN EN ISO 527-3)
Extension Break Lateral	: 125% (DIN EN ISO 527-3)
Maximum Burst Pressure	: 3 bar positive
UV Resistance	: Minimum 500 hours (DIN EN ISO 4892-2)
Service Temperature	: -30°C / +90°C



## IMPERMO® PU Waterproofing Tape

### Description:

**Polyurethane** waterproofing ready-to-use joint tape with **polyester non-woven** substrate and **160%** extension break, made of three special coated layers. The middle part is composed of waterproofing polyurethane membrane; the other two layers are of non-woven polyester. There are holes of 2 cm on both corners.

### Application Areas:

- Indoor and outdoor,
- Wet areas such as pools, water tanks, bathrooms and WVC,
- Pipe inlet-outlet details of water tanks, pools,
- Drainer 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.
- Eventhough 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 <sup>2</sup>
Thickness	: 0.44 mm
Width	: 120 mm
Extension Break Longitudinal	: 24% (DIN EN ISO 527-3)
Extension Break Lateral	: 160% (DIN EN ISO 527-3)
Maximum Burst Pressure	: 3 bar positive
UV Resistance	: Minimum 500 hours (DIN EN ISO 4892-2)
Service Temperature	: -5°C / +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 purification 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 stop tapes.
- Fills cracks and pores that may appear on cold concrete 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 5 m

### Technical Properties

Appearance	: Dark blue colored tape roll
Resistance to Water Press.:	≥ 7 bar (7 days in water)
Hardness (Shore A)	: ~ 35
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 <sub>3</sub> and salt in the water may change the expansion rates.
Application Temperature	: Between -20°C and +50°C

## 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 purification 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 stop tapes.
- Fills cracks and pores that may appear on cold concrete joints by swelling once it gets in contact with water. Makes concrete joints waterproof.
- Gets back to its original size when not in contact with water.
- Can be used for long time, resistant to dimensional deformation due to swelling.
- Can be conveniently used in vertical and horizontal applications.
- Once IMPERMO ACRYL-300 Acrylic 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.
- Does not require hardening time.
- Swells also in salt water.
- Flexible, swells up to 300% with water.

### Consumption:

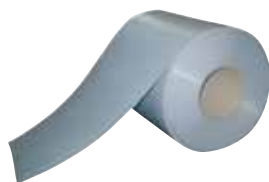
Running meter

### 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 bar (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 <sub>3</sub> and salt in the water may change the expansion rates.
Application Temperature	: Between -20°C and +50°C



## IMPERMO® COMBI Waterproofing Tape for Dilatation

### Description:

Ready-to-use **thermoplastic** elastomer based 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**.
- 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/m <sup>2</sup>
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 bar
Breaking Load Longitudinal	: 12.0 N/mm <sup>2</sup> (DIN EN ISO 527-3)
Breaking Load Lateral	: 12.1 N/mm <sup>2</sup> (DIN EN ISO 527-3)
Fire Class	: B2 (DIN EN 4102)
Service Temperature	: -30°C / +90°C



## 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 waterproofing applications with brush, 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 settlements such as foundation, retaining walls and basements.

### Advantages:

- Enhances the strength and carrying abilities of the waterproofing materials applied by brush, 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 curves 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 <sup>2</sup>
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	: -20°C / +80°C



# Waterproofing Systems Color Chart

Product Color Chart	MS Polymers		Hybrid Polymers		Capillary Waterproofing System		Cement Based	Acrylic Based		Silicone Based		Bitumen Based		Bitumen + Polyurethane Based	Polyurethane Based			
	POLYMER MS	POLYMER MS FLUID	AQUAMER HB	AQUAMER HB INVISIBLE	AQUAFIX LIKIT C	AQUAFIX LIKIT	AQUASTOP	AKRILAN 600	AKRILAN 600E	AQUALON	IZO-CERA	BITUMFIX WP BASIC	BITUMFIX W	BITUMFIX PIU 1K	POLAN A	POLAN 500	POLAN 620	POLAN 600 INVISIBLE
 Transparent				✓						✓	✓				✓			✓
 White								✓	✓									
 Off White	✓	✓														✓	✓	
 Grey	✓	✓	✓				✓									✓		
 Metallic Grey																		
 Black	✓	✓										✓	✓	✓				
 Light Brown					✓	✓												
 Pool Blue																	✓	
 Brick Red	✓	✓																
 Roof Green	✓	✓																

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

# Waterproofing Systems Product Usage Table

Application Areas		Products															
		POLYMER MS	POLYMER MS FLUID	AQUAMER HB	AQUAMER HB INVISIBLE	AQUAFIX C	AQUAFIX EXPAN	AQUAFIX	AQUAFIX S	AQUAFIX PRO	AQUAFIX LIKIT C	AQUAFIX LIKIT	AQUASTOP	AQUACEMENT 2K 251	AQUACEMENT 2K 250	AQUACEMENT 2K 207	
FOUNDATIONS and CURTAIN WALLS	Foundation concrete waterproofing					●	●	●	●	●	●	●					
	Stopping the water coming from the ground					●	○	●	●	●				○			
	Isolation of elevator pits					●	●	●	●		●	●		●			
	Positive waterproofing in reinforced concrete shear walls	●	●			●	●	●	●				●	●	○		
	Curtain wall concrete where negative waterproofing is required					●	●	●	●			●	●	●			
	Waterproofing curtain 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 parapets (to be covered)	○	○											●	●	●	
	Waterproofing of terrace roofs 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 beton, galvanised, aluminium, sheet metal surfaces	●	●	●	●												





# CONCRETE and MORTAR ADMIXTURES





## AQUAPLUS® 1 Waterproofing Admixture

### Description:

Mortar and screed admixture that allows ease of application by increasing **waterproofing** and workability of **plaster** and **floor** screeds.

### Application Areas:

- Tunnels and channels,
- Water tanks,
- Indoor and outdoor plaster,
- Concrete blocks,
- Swimming pools,
- Floor screeds.

### Advantages:

- Increases water impermeability by entraining air and diminishing 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 plasticity 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 Chloride and Nitrate	: None
Freezing Point	: < 0°C

## AQUALATEX® S.B.R. Mortar and Screed Admixture

### Description:

Multi-purpose, liquid synthetic rubber emulsion which increases the adherence and **waterproofing** properties of the the cement based mortars.

### Application Areas:

- Concrete repairs,
- Plasters,
- Coverings resistant to abrasion,
- Increase adherence between old and new concrete,
- Ceramic adhesive mortars,
- Places that require waterproofing,
- To prevent reinforcement corrosion,
- Sheet iron, zinc and PVC eaves, chimney flashings for waterproofing.

### Advantages:

- Provides high performance waterproofing. Protects the reinforcement against corrosion.
- Generates an elastic covering on wide surfaces and increases the adherence strength of mortar, plaster and screed, does not shrink and crack. Provides high adherence, reduces shrinkage.
- Water vapor permeable, allows the surface to breathe.
- Resistant to many chemicals and mineral oils.
- Adheres perfectly.
- Non-poisonous.
- 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:

<b>Waterproofing</b>	Aqualatex/Water : 1/3 - 1/4 Cement/Sand : 1/3
<b>Concrete Repairs</b>	Aqualatex/Water : 1/2 - 1/3 Cement/Sand : 1/2 - 1/3
<b>Floor Screeds</b>	Aqualatex/Water : 1/3 - 1/4 Cement/Sand : 1/3
<b>Outdoor Plasters</b>	Aqualatex/Water : 1/3 - 1/4 Cement/Sand : 1/3
<b>Bridge and Bonding Primer</b>	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

## PVA+ Primes, Seals and Waterproofs

### Description:

White colored polyvinyl acetate (PVA+) emulsion with high viscosity and adhesive, binding and sealing properties.

### Application Areas:

- Indoors,
- Horizontal and vertical applications,
- Repairing reinforced concrete structural elements and floors,
- Bonding old and new concrete,
- Bonding screed, plaster and paint to concrete, stone, brick and tile,
- Bonding materials such as plastic sheet, brick, glass, stone, chipboard, metal (except PVC, rubber and PE) to each other or to the concrete surface,
- As a mortar and screed additive to create a thin and seamless top layer,
- As an adherence additive to repairing mortars,
- Bonding sound boards, gypsum boards and ceramics to walls and ceilings, using appropriate filler.

### Advantages:

- Multi-purpose, dries fast, increases adherence.
- Easy to apply.
- Increases resistance against oil and salt solutions.
- Reduces dusting.
- Economical.

### Consumption:

Pure : 80 - 160 gr/m<sup>2</sup>  
1:1 Diluted : 40 - 80 gr/m<sup>2</sup>  
1:3 Diluted : 25 - 50 gr/m<sup>2</sup>

These amounts may vary according to the structure and roughness of the surface.

### Packaging:

6 kg, 20 kg, 30 kg plastic jerrycans and 180 kg barrels

Technical Properties	
Appearance	: High viscosity white colored liquid
Liquid Density	: ~ 1.04 kg/L
Solid Ratio	: 45%
pH	: 4 - 5 (20°C)
Film Forming Temp.	: +2°C / +6°C
App. Temp. Between	: +5°C and +35°C
Service Temperature	: -20°C / +80°C





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