

Waterproofing Systems / Capillary Waterproofing Systems**AQUAFIX® S****Sulphate Resistant Crystallized Waterproofing Material****Description**

Cement based **sulfate resistant crystallized** mortar in powder form, made of specifically selected fine aggregates and chemicals activated by water and moisture. It is applied in **positive** and **negative** directions and the chemicals it contains penetrate into the concrete in depth by reacting with moisture and free lime present in the concrete, and form crystals that do not dissolve in capillary voids and pores.

Application Areas**Negative Water Pressure:**

- In waterproofing of all concrete constructions which are exposed to sulphate and abrasive salts, such as seaports and bridges
- Interior waterproofing of basement walls and grounds
- Exterior waterproofing of water tanks
- Retaining walls
- Tunnels and subways
- Floors and horizontal joints
- Elevator excavations.

Positive Water Pressure:

- Water tanks
- Swimming pools
- Sewer system pipes, concrete pipes and manholes
- Waterproofing of groundwork and curtain walls
- Irrigation canals
- Dams
- Seaports, shipyards
- Cisterns.

Advantages

- Protects the concrete against **sulphate attacks**
- Effective in both **positive** and **negative** water pressure
- Integrates with the surface where it is applied, penetrates into the surface and provides long lasting and complete waterproofing
- At each contact with the water, it fills the capillary voids of the concrete with its crystallized structure and provides impermeability
- Non-poisonous. Perfect for water tanks
- Dry sprinkle application is a very easy and effective method for waterproofing problems that take place in horizontal work joints.
- Protects the concrete and reinforcement iron by preventing corrosion
- Does not need to be protected with materials such as isolation plates prior to the filling application
- Air and water vapor permeable, allows the construction to breathe
- Can be applied on fresh concrete that has not set yet
- Resistant to freeze-thaw cycle.

Consumption

Slurry	Positive water pressure : 1 - 2 kg/m ² (on 2 layers) Negative water pressure: 2 kg/m ² (on 2 layers)
Plaster	2 - 3 kg/m ² (on 5 mm plaster)
Dry Sprinkle	3 kg/m ²

Packaging

25 kg kraft bags

Technical Properties

Appearance	Grey colored fine powder
Powder Density	~ 1.20 kg/L

Water/Aquafix S Mixing Rate	Slurry: 1/2.25 - 2.50 Trowel Consistency: 1/3.25 - 3.50 Plaster: 1 Aquafix S/2 measures of to obtain trowel consistency
Resting Period	3 - 5 minutes
Pot Life	20 minutes
Application Temperature	Between +5°C and +35°C
Service Temperature	-20°C / +70°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.