

## INNO- SEAL

# FOX SULPHATSEAL FS275

## Cement Based, One Component, Polymer Reinforced, Sulphate Resistant, Waterproofing Material Used in Domestic Waste Water Facilities

### Description

**FOX SULPHATSEAL FS275** is a cement based, one component, polymer reinforced, sulphate resistant waterproofing material that is resistant to mechanical and chemical effects found in domestic waste water and applied on concrete or cement based plaster internally or externally.

### Fields of Application

- Indoors and Outdoors, from the positive direction,
- In municipal wastewater plants with a depth of less than 15 m, on the surface repaired or plastered with FOX MORTAR T FC 188 T, as an impermeable topcoat,
- Protecting the upper surfaces of the canals and canalettes and waterproofing,
- Coating of domestic waste water plants and reinforced concrete pipes,
- Protection of waste water channel and concrete pipes against sulphate effects,
- Used in wastewater and rainwater storage.

### Advantages

- Resistant to sulfate effects,
- High mechanical strength,
- Water vapor permeable,
- Does not shrink or crack,
- Resistant to freeze and thaw effect,
- Only mixed with water,
- Easy and fast application,
- Working time is long,
- Can be applied by brush, trowel or spraying method.
- It is suitable for continuous domestic wastewater and rainwater contact,
- Can be used safely in drinking water tanks.

### Technical Data

Structure of Material		Contains mineral fillers, sulphate resistant special cements and polymer modified additives.
Density	Brush Consistency	2,00 kg/lt
	Trowel Consistency	2,06 kg/lt
Color		Gray
Pressurized Water Strength		≥0,50 Bar (Positive)
Tensile Strength		≥1,00 N/mm <sup>2</sup>
Application Surface Temperature		+5°C / +25°C
Service Temperature		-20°C / +80°C
Duration of the maturation		3-5 minutes
Working Time		30 minutes
Opening to Use	Mechanical Strength	2 days
	Water Impermeability	3 days

The above values are given for +23°C and 50% relative humidity. High temperatures shorten the time, low temperatures extend the time



## Application Procedure

### Preparation of the Substrate

The surface to be applied must be solid, free from any oil, grease, rust, paraffin, paint, bitumen residues that will prevent adhesion to the surface and all loose parts must be cleaned. Iron and wooden wedges on the surface should be removed and active water leaks, if any, should be repaired with **FOX PLUG FC340** and the gaps, uneven surfaces and corner edges should be repaired at least 4 cm radius with **FOX MORTAR FC188 T** repair mortars. The surface to be applied must be thoroughly saturated with water the day before. The surface must be moist before application. The application surface should be wetted and waited until it becomes moist. If **FOX SULPHATSEAL FS275** waterproofing material loses its water immediately and takes a matte appearance during application, it is understood that the surface is not wetted sufficiently or the product dries quickly due to weather conditions. In such cases, when the weather is hot or the materials are in the wind, the mixing water of the material can be increased by 10% only for the first layer.

### Mixing

The appropriate amount of water described on the packaging is poured into a clean mixing bowl. While **FOX SULPHATSEAL FS275** is added slowly into the water, it is mixed with an electric mixer with 400-600 rpm/ min and suitable mixing tip for about 4 minutes until a homogenous mixture is obtained. No lumps should remain in the material. After the material is rested for about 3 minutes, it is mixed again for 30 second and made ready for application.

### Mixing Ratios

5.75 lt of water should be added to 25 kg bag in order to obtain a brush consistency.

4.75 lt of water should be added to the 25 kg bag to obtain the consistency of the trowel.

### Application

**FOX CRYSTALISER FS265** is applied to the previously moistened surface with a brush, trowel or airless method. The material should be applied in 2 coats. It should be 3-5 hours between each coat application. Waiting time between layers may vary depending on the ambient conditions. The second coat can be applied after the first layer reaches sufficient hardness.

### Cleaning of the Tools

Tools and equipment used after the application should be cleaned with water. **FOX SULPHATSEAL FS275** can only be mechanically cleaned from the surface after hardening.

### Coverage

3.25 kg/m<sup>2</sup> to obtain 2.00 mm thickness on damp ground

4.10 kg/m<sup>2</sup> to obtain 2.50 mm thickness in pressureless waters.

5.70 kg/m<sup>2</sup> to obtain a thickness of 3.50 mm in water tanks no deeper than 15 m.

### Watch Points

- **FOX SULPHATSEAL FS275** applied at +23°C gains mechanical resistance after 2 days and becomes waterproof after 3 days and reaches its final strength after 28 days. High temperatures shorten the time and low temperatures extend the time.
- In exterior surface applications, the surface should be protected from sun, wind, rain or frost for the first 24 hours.
- In application, wet film thickness should not exceed 2 mm in one layer. Application should be done in at least two layers. The amount to be consumed should be prepared in 30 minutes.

### Package

25 kg Polyethylene reinforced Kraft bag

### Shelf Life

When stored properly at room temperature, away from direct sunlight, between +5°C and +30°C, shelf life is 12 months from the date of production. Opened packages should be consumed within 1 week by closing their mouths.

### Storage

Should be stored in its original package, in a cool and dry place protected from frost. In short-term storage, maximum 3 pallets should be placed on top of each other and shipment should be made with the first-in, first-out system. In long-term storage, pallets should not be placed on top of each other.



### Safety Precautions

It is dangerous to approach the storage and application areas with fire. Storage and application areas should be ventilated.

During the application, work clothes, protective gloves, goggles, masks in accordance with the occupational health and safety rules should be used. During storage and application, the material should not be contacted with the skin and eyes, if contacted, should be washed immediately with plenty of water and soap, and if swallowed, should be sought medical attention immediately. Foods and drinks should not be taken into the application areas. The material should be stored out of the reach of children.

For detailed information, please refer to the Material Safety Data Sheet.

### Disclaimer

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