

INNO- SEAL FOX CRYSTALISER FS265

Cement Based, Crystallized, Active Hydrophobic Waterproofing Material

Description

FOX CRYSTALISER FS265 is cement based, one component, ready to use, hydrophobic reaction, waterproofing material applied against active, negative and positive water pressure.

In compliance with EN 1504-2:2004 / Principle 2.2 and 8.2.

Fields of Application

- Indoors and outdoors,
- In horizontal and vertical applications,
- Water tanks,
- On foundation, curtain and retaining walls,
- In elevator pits,
- Used against floor moisture in basement floors.

Advantages

- Only mixed with water,
- Easy and fast to apply,
- Long working time,
- Resistant to negative and positive water pressure,
- Provides water impermeability due to its hydrophobic and capillarity feature on concrete surfaces,
- Protect the concrete and reinforcement from corrosion,
- Water vapor permeable,
- Resistant to freeze and thaw effects,
- Can be used in drinking water tanks,
- The crystals it forms do not dissolve, separate from the surface and do not frazzle,
- The most economical solution that can be done in the negative direction.

Technical Data

Structure of Material		Cement, mineral fillings, special additives
Density		2,00 kg/lt
Color		Gray
Compression Strength	28 days	20 N/mm ²
Application surface Temperature		+5°C / +30°C
Service Temperature		-20°C / +80°C
Duration of the maturation		3-5 minutes
Working Time		20 minutes
Crack Bridging		Max. 0,4 mm
Capillary Water Absorption and water permeability	EN 1062-3	w<0,1 kg/m ² x h ^{0.5}
Water Vapor Permeability	EN ISO 7783-1	Class I - S _D <5 m
Bond Strength	EN 1542	≥0,8 (0,5 min.) N/mm ²
Reaction to Fire	EN 13501-1	A1 Class

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.

Mixing

Unlike other mixing method, **FOX CRYSTALISER FS265** is put into the mixing bowl. Mixing is started while adding the mixture water from above. The material is mixed with an electric mixer of 400 - 600 rpm / min and suitable mixing tip for 4-5 minutes until it becomes homogeneous. After resting for 2 minutes, it is mixed again for 1 minute and made ready for application.



Mixing Ratios

For 1 kg of **FOX CRYSTALISER FS265** approximately 0,3 lt of water,
For 1 bag/20 kg of **FOX CRYSTALISER FS265** approximately 6,00 lt of water will be enough

Application

FOX CRYSTALISER FS265 is applied to the previously moistened surface with a brush. The material should be applied in 2 coats. It should be 3-5 hours between each coat application. The second coat can be applied after the first layer reaches sufficient hardness.

ATTENTION: Do not apply curing material on the material after application and keep the material wet for 5-7 days. This application will ensure crystallization. 24 hours after the application in the water tanks, the tank should be filled and the crystal formation and penetration depth should be increased. The material becomes waterproof after 7 days. The material should be protected from direct sunlight and wind for 24 hours.

Cleaning of the Tools

Tools and equipment used after the application should be cleaned with water.
FOX CRYSTALISER FS265 can only be mechanically cleaned from the surface after hardening.

Consumption

1st layer consumption; 1 kg/m²
2nd layer consumption; 1 kg/m²

Watch Points

- In the application of **FOX CRYSTALISER FS265**, if the ambient and surface temperature is below +5°C or above +30°C, suitable temperatures should be expected. Application should not be made in extremely hot, rainy or windy weather. **FOX CRYSTALISER FS265** applied at +2°C gains mechanical strength after 3 days, becomes waterproof after 7 days and reaches its final strength after 28 days.
- In exterior surface applications, the surface should be protected from sun, wind, rain or frost for the first 24 hours.
- Working and reaction times of cement and acrylic based systems are affected by ambient and ground temperature and relative humidity in the air. At low temperatures, the reaction slows down, which increases pot life and working time. High temperatures accelerate the reaction and the times mentioned above are shortened accordingly.
- In order for the material to complete its curing, the floor temperature and ambient temperature to be applied must not fall below the minimum allowed value.

Package

20 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 6 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.



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EN 1504-2:2004

FOX CRYSTALISER FS265

**Cement Based, Crystallized, Active Hydrophobic
Waterproofing Material**

Principles 2.2, 8.2

Determination of adhesion strength by pull-off method /
Flexible Systems, Without traffic load $\geq 0,8$ (0,5 min) N/mm²

Water vapor permeability / Class I sD <5 m

Capillary water absorption and water permeability /
 $W < 0,1$ kg/(m²*h^{0,5})

Reaction to Fire / Class A1

Dangerous Substances / According to 5.4.



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