

INNO- SEAL

FOX CRYSTALISER FS265

Cement Based, Crystallized, Active Hydrophobic Waterproofing Material

Description

FOX CRYSTALISER FS265 is a cement-based, single-component, ready-to-use, active crystalline waterproofing material that exhibits a hydrophobic reaction and is applied against both negative and positive water pressure.

In compliance with EN 1504-2/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

- Resistant to both negative and positive water pressure.
- Provides water impermeability on concrete surfaces thanks to its hydrophobic and capillary properties.
- Easy and fast to apply.
- Mixed only with water.
- Long working time.
- The formed crystals are insoluble, do not detach from the surface, and do not age.
- Protects concrete and reinforcement against corrosion.
- Water vapor permeable.
- Resistant to freeze–thaw cycles.
- Suitable for use in potable water tanks.
- The most economical solution for negative-side waterproofing.

Technical Data

Material Structure		Cement, mineral fillers, special additives
Color		Grey
Dry Density		~1.3 g/cm ³
Fresh Mortar Density		2.1±0.1 g/cm ³
Adhesion Strength	EN 1542	≥ 0.8 (min. 0.5) N/mm ²
Capillary Water Absorption and Water Permeability	EN 1062-3	W<0,1 kg/m ² xh ^{0.5}
Water Vapor Permeability	ISO EN 7783	(Class I)
Maturation Time		3–5 minutes
Pot Life		~30 minutes
Substrate Temperature for Application		+5°C / +30°C
Reaction to Fire	EN 13501-1	A1

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 methods, **FOX CRYSTALISER FS265** is first placed into the mixing container. Mixing is started while the mixing water is added from above. The material is mixed for 4–5 minutes with an electric mixer (400–600 rpm) and a suitable mixing paddle until a homogeneous consistency is achieved. After resting for 2 minutes, it is mixed again for 1 minute and becomes ready for application.



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Mixing Rates

For 1 kg of **FOX CRYSTALISER FS265**, approximately 0.3 liters of water should be used.

For 1 bag/20 kg of **FOX CRYSTALISER FS265**, 6.00 liters of water should be used.

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.

IMPORTANT NOTE: Do not apply any curing compound on the material after application, and keep the surface wet for 5–7 days. This practice ensures proper crystallization. In water tanks, the tank should be filled with water 24 hours after application to enhance crystal formation and penetration depth. The material becomes waterproof after 7 days. The material must 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.

Coverage

1st layer consumption; 1 kg/m²

2nd layer consumption; 1 kg/m²

Points to Consider

- During the application of **FOX CRYSTALISER FS265**, if the ambient and substrate temperature is below +5°C or above +30°C, suitable temperatures should be awaited. Application should not be carried out in extremely hot, rainy, or windy conditions. **FOX CRYSTALISER FS265** applied at +23°C gains mechanical strength after 3 days, becomes waterproof after 7 days, and reaches its final strength after 28 days.
- In exterior applications, the surface must be protected from sunlight, wind, rain, and frost for the first 24 hours.
- The working and reaction times of cement- and acrylic-based systems are affected by ambient and substrate temperature as well as relative humidity. At low temperatures, the reaction slows down, extending pot life and working time. High temperatures accelerate the reaction and accordingly shorten the specified times.
- In order for the material to complete its curing, the ambient and substrate temperature must not fall below the minimum permitted temperature.

Package

20 kg Polyethylene reinforced Kraft bag

Shelf Life and Storage

The product should be stored in its original, unopened packaging in a dry and cool environment (between +5°C and +30°C), protected from direct sunlight and frost. When stored under the specified conditions, the shelf life is 6 months from the date of production. Opened packages should be tightly sealed and consumed within 1 week. For short-term storage, a maximum of 2 pallets should be stacked, and shipments should follow the FIFO (First In, First Out) system. For long-term storage, pallets should not be stacked.

Safety Precautions

It is dangerous to approach storage and application areas with open flames. Storage and application areas must be well ventilated. During application, appropriate work clothing in accordance with occupational health and safety regulations, as well as protective gloves, goggles, and masks must be used. Avoid contact with skin and eyes during storage and application; in case of contact, wash immediately with plenty of water and soap. If swallowed, seek medical attention immediately. Food and beverages must not be brought into application areas. Keep out of reach of children. For detailed information, refer to the Safety Data Sheet (Material Safety Data Sheet).

Liability

The information provided in this technical document is based on our scientific and practical knowledge. Fox Bau Yapı Kimyasalları A.Ş. is responsible only for the quality of the product. The company cannot be held liable for any consequences arising from uses other than those specified in written recommendations and/or from improper use. For detailed information, please refer to the Safety Data Sheet and Technical Data Sheet or contact our company representatives.



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