

INNO-SEAL FOX MULTISEAL® FS488

Fully Flexible Waterproofing Material Applicable from Negative-Positive Direction

Description

FOX MULTISEAL® FS488, is a cement and polymer dispersion based, two-component, fully flexible waterproofing material with crack bridging feature at low temperature (-5°C), resistant to chlorinated water, designed for all kinds of reinforced concrete surfaces and cement based plasters, can be applied from negative and positive directions.

EN 14891:2017 complies with the standard for waterproof products applied in liquid form for use under ceramic tiles in wet areas. It meets CMO1P requirements.

EN 1504-2:2004 Products and systems for the protection and repair of concrete structures; Conforms to the standard of surface protection systems for concrete. Provides 2.2, 8.2 conditions.

Fields of Application

- Indoors and outdoors, in horizontal and vertical applications, from the negative and positive direction from which water comes,
- Swimming pools,
- Under cladding on terraces,
- In the water tanks,
- In soft water tanks used in textile industry and hotels (pH between 3-7)
- In the elevator pits,
- In wet areas such as bathrooms, balconies and kitchens,
- In hydroelectric power plants,
- In fish breeding ponds,
- In places like baths, saunas, spas,
- In the basement curtains,
- Used in drinking water tanks.

Advantages

- Easy to prepare and easy to apply,
- The uptime is long,
- Negatively and positively effective (1 bar negative - 7 bars positive),
- Remains flexible even at low temperatures (-5°C)
- Excellent adhesion, works with the surface,
- Permeable to water vapor and air,
- Resistant to freeze - thaw effect,
- It does not shrink or crack,
- Thanks to its high adhesion performance and flexibility, it forms a perfect waterproof layer under screed and ceramic tiles without being affected by deformation,
- When applied at 2 mm thickness, it covers cracks up to 0.75 mm, when reinforced with waterproofing mesh, it covers cracks up to 1.20 mm,
- It is suitable for light pedestrian traffic,
- It has high resistance to carbon dioxide ions.



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Technical Properties

Material Structure	Component A Component B	Mineral fillers, special cement, polymer Liquid polymer dispersion
Density		1,80±0,05 kg/L
Color		Greenish Gray
Floor Temperature		+5°C / +30°C
Service Temperature		-20°C / +80°C
Initial Tensile Adhesion	EN 14891/A.6.2	≥0,50 N/mm ²
Tensile Adhesion After Contact with Water	EN 14891/A.6.3	≥0,50 N/mm ²
Tensile Adhesion After Heat Aging	EN 14891/A.6.5	≥0,50 N/mm ²
Tensile Adhesion after Freeze-thaw	EN 14891/A.6.6	≥0,50 N/mm ²
Tensile Adhesion After Chalky Water Contact	EN 14891/A.6.9	≥0,50 N/mm ²
Tensile Adhesion After Contact with Chlorinated Water	EN 14891/A.6.7-6.8	≥0,50 N/mm ²
Water Proofing	EN 14891/A.7	No Water Transmission and ≤20 g weight gain
Crack Bridging (+23°C)	EN 14891/A.8.3	≥0,75 mm
Crack Bridging (-5°C)	EN 14891/A.8.3	≥0,75 mm
Water Vapor Permeability	EN ISO 7783	Class I
Water Absorption and Water Permeability	EN 1062-3	<0,10 kg/m ² h ^{0,5}
Adhesion Strength by Pull-Out Test	EN 1542	≥0,80 N/mm ²
Pressurized Water Strength		≥1,00 bar (Negative) ≥7,00 bar (Positive)
Pot Life		~45 min
Maturation Time		3-5 min
Minimum Application Thickness		≥2 mm
Opening for Use	Mechanical Strength	After 2 days
	Water Impermeability	After 7 days
	Plaster	3 days
	Tile	3 days



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

Application Procedure

Substrate Preparation

The surface to be applied must be solid, free from all kinds of 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 plugged with **FOX PLUG FC340**. Existing gaps, uneven surfaces and corner edges (chamfering at least 4 cm) should be made with **FOX MORTAR FC188 T** repair mortar. The surface should be moistened before application. If the coating material loses its water immediately during application and takes on a dull appearance, it is understood that the surface is not sufficiently moisturized or dries quickly. In such cases where the weather is hot or the materials are in the wind, water up to 10% of **FOX MULTISEAL® FS488 B** component can be added to the mixed material for the first layer only.

Mixing

Add 1/2 of the **FOX MULTISEAL® FS488 B** component into a clean mixing bowl. While **FOX MULTISEAL® FS488 A** component is added slowly, it is mixed for about 2-3 minutes with an electric mixer with 400-600 rpm and a suitable mixing tip. The paste-like mixture is rested for 3-5 minutes to mature, the remaining B component is added and mixed for 1-2 minutes and made ready for application.

Mixing Ratios

25 kg **FOX MULTISEAL® FS488 A** component is mixed with 10 kg **FOX MULTISEAL® FS488 B** component.

Application

The prepared **FOX MULTISEAL® FS488** mixture is applied in two or three layers with a minimum 2 mm dry film with the help of an insulation brush. The brush application direction in each layer should be perpendicular to each other. Waiting time between coats varies according to ambient conditions. Depending on the application area and size, an alkali-resistant non-finished mesh should be used. Depending on the size of the ceramic, marble, etc. coating material to be applied and the place of use (pool, outdoor, etc.), it is recommended to use a flexible type FOX brand ceramic adhesive that provides high performance C2ES1/C2TES1/C2TES2 properties according to EN 12004-1 standard.



Cleaning of Tools

Tools and equipment used after application should be cleaned immediately with water. **FOX MULTISEAL® FS488** can only be mechanically cleaned from the surface after hardening.

Consumption

Primer; 1,00 kg/m²
1.Layer; 1,50 kg/m²
2.Layer; 1,50 kg/m²

Watch Points

- When applying **FOX MULTISEAL® FS488** 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 MULTISEAL® FS488**, 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 surface applications, the surface must be protected from sun, wind, rain or frost for the first 24 hours.
- The 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 prolongs pan life and working time. High temperatures accelerate the reaction and the times mentioned above are shortened accordingly.
- For the material to cure, the ambient and ground temperature must not fall below the minimum permissible temperature.
- In application, the wet film thickness should not exceed 1.30 mm in a single layer.
- Places that need to be walked on should be covered with **FOX BINDER FM125** reinforced screed.
- It is recommended to use **INNO-FIX** series ceramic adhesives for covering ceramic, marble etc. products.

Package

35 kg Set
Component A; 25 kg polyethylene reinforced kraft bag
Component B; 10 kg tin

Shelf Life

When stored correctly at room temperature, away from direct sunlight, between +5°C and +30°C, the shelf life is 12 months from the date of manufacture. **FOX MULTISEAL® FS488** B component freezes at temperatures below 0°C. Opened packages should be kept tightly closed in suitable storage conditions and used within one week.

Storage

It should be stored in its unopened original packaging, in a cool and dry environment, protected from frost. For short-term storage, maximum 3 pallets should be stacked on top of each other and shipment should be made on a first-in, first-out basis. For long term storage, pallets should not be stacked 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, it should not be contacted with the skin and eyes, should be washed immediately with plenty of water and soap, and if swallowed, seek medical attention immediately. Food and drink materials should not be brought to the application areas. It 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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