

## INNO- SEAL

# FOX MULTISEAL® FS488

## Cement and Acrylic Based, Two Component, Super Flexible Waterproofing Material That Can Be Applied From the Negative-Positive Direction

### Description

**FOX MULTISEAL® FS488** is a cement and acrylic based, two component, super flexible waterproofing material that can be applied in negative and positive directions.

### Fields of Application

- Indoors and outdoors, horizontal and vertical applications,
- On terraces under coating,
- Water storages,
- In soft water tanks (between pH 3-7) used in textile industry and hotels
- In elevator pits,
- Wet areas such as bathrooms, balconies, kitchens,
- In olympic swimming pools,
- In hydroelectric power plants,
- In fish breeding ponds,
- In places like baths, saunas, spas,
- On basement floors curtain walls,
- In drinking water tanks

### Advantages

- Easy to prepare and apply,
- Long working time,
- Effective from negative and positive direction (1 bar negative - 1.5 bar positive),
- Has excellent adhesion and works with the surface,
- Water vapor and air permeable,
- Resistant to freeze-thaw effects,
- Does not shrink or crack,
- Thanks to its high adhesion performance and flexibility, it forms a perfect water impermeable layer under the screed and ceramic without being affected by deformation,
- It covers the cracks when applied in 2mm thickness, up to 0.50mm, when reinforced with waterproofing mesh, up to 1.20mm.
- Suitable for light pedestrian traffic,
- Has high resistance against carbon dioxide ions.

### Technical Data

Structure of Material	Component A	Mineral fillings, special cement, polymer
	Component B	Liquid polymer dispersion
Density		1,44 kg/litre
Color		Gray / White
Adhesion Strength 28 days		1,0 N/mm <sup>2</sup>
Flexural Strength 28 days		0,64 N/mm <sup>2</sup>
Pressurized Water Strength		1,00 bar (Negative) 1,50 bar (Positive)
Capillary Water Suction	4 hours later	<0,10 gr
Water Vapor Permeability		985
Freeze - Thaw Resistance		No deformation after 50 cycles
Application Surface Temperature		+5°C / +25°C
Service Temperature		-20°C / +80°C
Mixture Working Time		45 minutes
Opening to Use	Water impermeable	7 days
Coated on it	Plaster or Ceramic	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 (chamfer making at least 4 cm) should be repaired with **FOX MORTAR FC188 T** repair mortars. The surface should be wetted before application. If 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 cases where such air is hot or the materials are in the wind, the water through 10% of **FOX MULTISEAL® FS488** B component is added to the mixed material for the first layer.

### Mixing

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

### Mixing Ratios

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

### Application

The prepared **FOX MULTISEAL® FS488** mixture is applied in minimum two coats with the help of an insulating brush or spraying machine. The brush application direction on each layer should be perpendicular to each other. Waiting time between layers varies according to the ambient conditions. Reinforced concrete surfaces must be moistened before application.

### Cleaning of the Tools

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

### Coverage

Primer; 1,00 kg/m<sup>2</sup>  
1<sup>st</sup> Coat; 1,50 kg/m<sup>2</sup>  
2<sup>nd</sup> Coat; 1,50 kg/m<sup>2</sup>

### Watch Points

- In the application of **FOX MULTISEAL® FS488**, if the ambient and surface temperature is below +5°C or above +25°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 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.
- In application, wet film thickness should not exceed 1,30 mm in one layer.
- The places to be walked on should be covered with **FOX BINDER FM125** additive screed.
- If it will be covered with ceramic and marble products, it is recommended to use **INNO-FIX** series ceramic adhesives.

### Package

35 kg Set  
Component A; 25 kg Polyethylene reinforced Craft bag  
Component B; 10 kg Tin gallon



### 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. The component B of **FOX MULTISEAL® FS488** freezes at temperatures below 0°C. Opened packages should be kept tightly closed, stored in appropriate storage conditions and consumed in one week.

### 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

The data contained in this technical document is based on our scientific and practical knowledge. SARTECH Yapı Malzemeleri San. ve Tic. Ltd Şti. is only responsible for the quality of the product. From the results that may occur due to misuse and other than written suggestions about where and how to use the product, SARTECH Yapı Malzemeleri San. ve Tic. Ltd Şti. cannot be held responsible. The responsibility of the correct application of our product belongs to the user. Our company is only responsible for the quality of the product. This technical form is valid only till a new version is implemented and nullifies the old ones. Our company has the right to make changes in all kinds of information and content details in this catalog. It is imperative to check that the information in the catalog is current and valid. All rights reserved.

