

INNO- SEAL

FOX MULTISEAL® FS477

Cement and Polymer Dispersion Based, Two Component, Fully Elastic Waterproofing Material

Description

FOX MULTISEAL® FS477, cement and polymer dispersion based, two component, fully elastic waterproofing material that can be used under coating in wet areas such as balconies, terraces, bathrooms, indoors and outdoors.

- **TS EN 14891:2017 wet areas comply with the standard for waterproof products applied in liquid form for use under ceramic tiles. It meets the CM02P requirements.**

- **Item No: 15.270.1007**

CM : Cement-based polymer reinforced waterproof material

O2 : Crack bridging at very low temperatures (-20°C)

P : Resistant to contact with chlorinated water



Fields of Application

- In indoor and outdoor, horizontal and vertical applications, the water comes from the positive direction,
- In water and balance tanks,
- In all wet areas such as bathrooms, balconies, kitchens,
- In swimming pools,
- On foundation, curtain and retaining walls,
- It can be used on terraces provided that it is covered.

Advantages

- It is flexible and waterproof,
- Maintains its flexibility even at very low temperatures (-20°C)
- Easy to prepare and apply,
- It can be applied with a brush or spraying machine,
- It has excellent adhesion and crack bridging properties,
- Creates a waterproof layer under screed and ceramic,
- Creates a jointless, jointless, permanent, waterproof insulation layer,
- Resistant to chemicals and salt solutions in the soil,
- It is permeable to water vapor,
- Its durability is high,
- Resistant to freeze-thaw cycle.
- It can be used in areas affected by motion and vibration.

Technical Properties

Structure of Material	A Component B component	Special cement, Mineral fillers, Polymer Liquid Polymer Dispersion
Color		Greenish Gray
Mixing Density		1,54 kg/lit
Application Surface Temperature		+5°C / +25°C
Service Temperature		-20°C / +80°C
Initial Strength	EN 14891/A.6.2	≥0,50 N/mm ²
Adhesion After Contact with Water	EN 14891/A.6.3	≥0,50 N/mm ²
Adhesion After Heat Aging	EN 14891/A.6.5	≥0,50 N/mm ²
Adhesion after Freeze-Thaw	EN 14891/A.6.6	≥0,50 N/mm ²
Adhesion After Lime Water Contact	EN 14891/A.6.9	≥0,50 N/mm ²
Water Impermeability	EN 14891/A.7	No Water Transition and ≤20 g increase in weight
Crack Bridging (+23°C)	EN 14891/A.8.3	≥0,75 mm
Crack Bridging (-20°C)	EN 14891/A.8.3	≥0,75 mm
Open to Use	Mechanical Strength	2 days
Waterproof		7 days
Üzerinin Kaplanması	Sıva veya Seramik	3 gün



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



Application Procedure

Preparation of Substrate

The surface to be applied must be sound, free of 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 blocked 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 and takes on a matte appearance during application, it is understood that the surface is not sufficiently moistened or dries quickly. In cases where such weather is hot or the materials are left in the wind, 10% of water of **FOX MULTISEAL® FS477 B** component can be added into the mixed material only for the first layer.

Mixing

Pour 2/3 of the **FOX MULTISEAL® FS477 B** component into a clean mixing bowl. While **FOX MULTISEAL® FS477 A** component is slowly added on it, it is mixed for about 2 minutes with an electric mixer of 400-600 rpm and a suitable mixing tip. The mixture, which has a paste-like consistency, is rested for 1 minute, the remaining B component is added, and it is mixed for 1-2 minutes to make it ready for application.

Mixing Ratios

24 kg of **FOX MULTISEAL® FS477 A** component is mixed with 8 kg of **FOX MULTISEAL® FS477 B** component.

Application

The prepared **FOX MULTISEAL® FS477** mixture is applied in two or three layers with the help of an insulation brush. The brush application direction on each layer should be perpendicular to each other. Waiting time between coats varies according to ambient conditions.

Cleaning of Tools

Tools and equipment used after the application should be cleaned with water.

Consumption

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

Watch Points

- In the application of **FOX MULTISEAL® FS477**, if the ambient and surface temperature is below +5°C or above +25°C, suitable temperatures should be expected. It should not be applied in extremely hot, rainy or windy weather. **FOX MULTISEAL® FS477** applied at +23°C gains mechanical strength after 2 days, becomes waterproof after 7 days and reaches its final strength after 28 days.
- For exterior applications, the surface must 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. The reaction slows down at low temperatures, which extends pan (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 ambient and ground temperature must not fall below the minimum allowable temperature. In practice, the wet film thickness should not exceed 1.30 mm in one coat.
- **FOX TRIPLETAPE 120** chamfer tape should be applied to the corner joints in the application area. In cases where there is no chamfer tape, after the corner chamfer is made, a 20 cm wide alkali-resistant unfinished mesh should be placed in the corners with waterproofing material.
- The areas that need to be walked on should be covered with **FOX BINDER FM125** added screed.
- It is recommended to use **INNO-FIX** series ceramic adhesives for coating products such as ceramics and marbles.

Package

32 kg Set
A Component; 24 kg polyethylene reinforced kraft bag
B Component; 8 kg tin gallon

Shelf Life

Shelf life is 12 months from the date of production when properly stored at room temperature, away from direct sunlight between +5°C and +30°C. **FOX MULTISEAL® FS477 B** component freezes at temperatures below 0°C. Opened packages should be kept tightly closed and stored under appropriate storage conditions and should be used within one week.



Storage

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

Safety Precautions

It is dangerous to approach storage and application areas with fire. Storage and application areas should be ventilated. During the application, work clothes, protective gloves, glasses and masks in accordance with the occupational and worker health rules should be used. During storage and application, it should not be contacted with the skin and eyes, in case of contact, it should be washed with plenty of water and soap, and if swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into the application areas. It should be stored out of the reach of children.

For detailed information, the Material Safety Data Sheet should be consulted.

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