

INNO- SEAL

FOX MULTISEAL® FS478

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

Description

FOX MULTISEAL® FS478 is cement and polymer dispersion based, two component, fully elastic waterproofing material designed for all kinds of reinforced concrete surface and cement based screeds.

- In compliance with the **TS EN 14891:2017 waterproof products standard applied in liquid form for use under ceramic tiles on wet areas. In compliance with CM01P standards.**
- **Public Works Pos. No: 15.270.1007**

CM : Cement based polymer reinforced water impermeable material

O1 : Crack Bridging Feature under very low temperatures (-5°C)

P : Resistant to contact with Chlorine water



Fields of Application


- Indoors - outdoors, from the positive side where the water comes vertically and horizontally,
- In water and balance tanks,
- Olympic swimming pools and thermal pools,
- In wall and floor coatings of cold stores,
- In all wet volumes such as bathroom, balcony, kitchen etc.
- On terraces ((with the condition to be covered)),
- On foundation, curtain and retaining walls,
- In flowerpot insulation,
- Used in drinking water tanks.

Advantages

- Fully elastic and water impermeable,
- Easy to prepare and apply,
- Can be applied with brush or spraying machine,
- Long working time,
- Has excellent adhesion and crack bridging feature,
- Form a water impermeable layer under the screed and ceramic,
- Creates a joint less, seamless, permanent, waterproof coating,
- Resistant to chemical and salt solutions in the ground,
- Water vapor permeable,
- High durability,
- Can be used in motion and vibrating areas,
- Resistant to freeze-thaw effect.



Technical Data

Structure of Material	Component A Component B	Special Cement, Mineral filler, Polymer Liquid Polymer Dispersion	
Color		Greenish Gray	
Mixture Density		1,70 kg/lt	
Initial Adhesion	TS EN 14891/A.6.2	≥0,50 N/mm ²	
Adhesion After Water Contact	TS EN 14891/A.6.3	≥0,50 N/mm ²	
Adhesion After Thermal Aging	TS EN 14891/A.6.5	≥0,50 N/mm ²	
Adhesion After Freeze-Thaw	TS EN 14891/A.6.6	≥0,50 N/mm ²	
Adhesion After Chlorine Water	TS EN 14891/A.6.9	≥0,50 N/mm ²	
Water Impermeability	TS EN 14891/A.7	No water passage and ≤ 20 g weight increase	
Crack Bridging (+23°C)	TS EN 14891/A.8.3	≥0,75 mm	
Crack Bridging (-5°C)	TS EN 14891/A.8.3	≥0,75 mm	
Pressure Water Resistance		7 bar (Positive)	
Application Surface Temperature		+5°C / +25°C	
Service Temperature		-20°C / +80°C	
Mixing Working Time		2 hours	
Open to Use	Mechanical Strength	2 days	
Water Impermeability		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® FS478 B** component is added to the mixed material for the first layer.

Mixing

The 1/2 ratio of the **FOX MULTISEAL® FS478 B** component is poured into a clean mixing bowl. While slowly adding **FOX MULTISEAL® FS478** 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

20 kg of **FOX MULTISEAL® FS478** component A is mixed with 10 kg of **FOX MULTISEAL® FS478** component B.

Application

The prepared **FOX MULTISEAL® FS478** mixture is applied in two or three coats with the help of an insulating brush. The brush application direction on each layer should be perpendicular to each other. Waiting time between layers varies according to the ambient conditions.

Cleaning of the Tools

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

Coverage

Primer; 1,00 kg/m²
1st Coat; 1,50 kg/m²
2nd Coat; 1,50 kg/m²



Watch Points

- In the application of **FOX MULTISEAL® FS478**, 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® FS478** applied at +23°C gains mechanical strength after 2 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.
- **FOX TRIPLETAPE** chamfer tape should be applied to the corner joints in the application area. In cases where there is no beveling tape, after corner beveling, 20 cm wide alkali-resistant mesh should be placed in the corners with waterproofing material.
- 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

30 kg Set
Component A; 20 kg Polyethylene reinforced Kraft 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® FS478** 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

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