

INNO-SEAL**FOX ULTRASEAL®-UV FS485****UV Resistant, Super Flexible Waterproofing Material****Description**

FOX ULTRASEAL®-UV FS485, is a cement and acrylic based, two-component, UV resistant, super flexible waterproofing material that forms an effective barrier against waterborne salts and gases in the atmosphere.

It meets the requirements of EN 1504-2:2004/Principle 2.2 and 8.2**Fields of Application**

- On UV-exposed terraces,
- Drinking water tanks,
- Indoor and outdoor, horizontal and vertical applications,
- In the water tanks,
- In wet areas such as bathrooms, balconies and kitchens,
- Olympic swimming pools,
- It can be used in places such as baths, saunas and spas.

Advantages

- Resistant to UV rays.
- It has excellent adhesion properties.
- Easy to prepare and easy to apply.
- Can be applied with brush and spraying machine.
- It has a long working time.
- Resistant to light pedestrian traffic on terraces.
- Resistant to freeze-thaw cycle.
- Resistant to carbon dioxide and chlorine in atmospheric conditions

Technical Properties

Material Structure		A Component: Special cement, Mineral fillers B Component: Liquid Polymer Dispersion
Color		White
Mortar Density		1,50±0,05 kg/lt
Adhesion Strength by Pull-Out Method	EN 1542	≥0,8 N/mm ²
Capillary Water Absorption and Water Permeability	EN 1062-3	w<0,1 kg/m ² .h ^{0,5}
Water Vapor Permeability	EN ISO 7783	Class III
Resistance to Pressurized Water	2 mm dry film thickness	7 bar (Positive)
Substrate Temperature for Application		+5°C /+30°C
Service Temperature		-20°C /+80°C
Pot Life		~2 hour
Maturation Time		3-5 minutes
Minimum Application Thickness		≥2 mm
Opening Date	Mechanical Strength	2 days later
	Waterproofness	7 days later
Material Structure	Plaster	3 days later
	Ceramics, etc.	3 days later

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.



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Mixing

Pour 1/2 of the **FOX ULTRASEAL®-UV FS485** B component into a clean mixing bowl. While **FOX ULTRASEAL®-UV FS485** A component is added slowly, it is mixed for about 2-3 minutes with an electric mixer at 400-600 rpm and a suitable mixing tip. The mixture reaching the consistency of paste is rested for 3-5 minutes for maturation, the remaining B component is added on it and mixed for 1-2 minutes and made ready for application.

Mixing Ratios

20 kg **FOX ULTRASEAL®-UV FS485** A component is mixed with 10 kg **FOX ULTRASEAL®-UV FS485** B component.

Application

The surface must be moistened before application. If the coating material loses its water quickly during application and takes on a matte appearance, it indicates that the surface has not been sufficiently moistened or that it has dried too quickly. In such cases, especially when the weather is hot or the materials are exposed to wind, 10% water can be added to the **FOX ULTRASEAL®-UV FS485** B Component for the first coat only. [Mh1.1] The prepared **FOX ULTRASEAL®-UV FS485** mixture is applied in two or three coats using an insulation brush or spray machine to create a minimum 2 mm dry film. The brush application direction in each coat should be perpendicular to the other. The waiting time between coats varies depending on ambient conditions. Reinforced concrete surfaces must be moistened before application. Depending on the application area and size, **FOX PROMAT 69** (alkali-resistant fiberglass mesh) should be used.

Important Note; FOX ULTRASEAL®-UV FS485 shows a resistance up to 7 Bar pressure (70 meters overhead water pressure) from the positive direction. **FOX ULTRASEAL®-UV FS485** resistance to pressurized water varies according to the thickness of the coating to be formed. 4 kg/m² for 3 bar pressure resistance, 6 kg/m² for 7 bar pressure resistance, the material should be applied in layers.

Cleaning of Tools

Tools and equipment used after application should be cleaned immediately with water. **FOX ULTRASEAL®-UV FS485** 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 ULTRASEAL®-UV FS485** 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 ULTRASEAL®-UV FS485**, 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 substrate temperature and relative humidity. At low temperatures, the reaction slows down, which prolongs pot 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.
- **FOX TRIPLETAPE 120** bevel tape should be applied to the corner joints in the application area. In cases where bevel tape is not available, after making the corner bevel, 20 cm wide **FOX PROMAT 69** (alkali-resistant glass textile mesh) waterproofing material should be placed on the corners.
- 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

30 kg Set

Component A; 20 kg polyethylene reinforced kraft bag

Component B; 10 kg tin gallon



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Shelf Life and Storage

The product should be stored in its unopened original packaging in a dry and cool environment (+5°C to +30°C), protected from sunlight and frost. **FOX ULTRASEAL®-UV FS485** B Component freezes at temperatures below 0°C. If the specified storage conditions are followed, the shelf life is 12 months from the date of manufacture. Opened packages should be consumed within 1 week by resealing them. For short-term storage; a maximum of 2 pallets of component A can be stacked on top of each other, while pallets of component B should absolutely not be stacked on top of each other. Shipments should be made using the first-in, first-out system. 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

The data contained in this technical document is based on our scientific and practical knowledge. Fox Bau Yapı Kimyasalları A.Ş. is only responsible for the quality of the product. Our company cannot be held responsible for consequences arising from uses other than those recommended in writing and/or from incorrect use of the product. For detailed information, please refer to the safety data sheet and technical data sheet or contact our company representatives.



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