INNO-SEAL

ULTRASEAL®-UV FS 485

Cement and Acrylic Based, Resistant to UV Rays, Two Component, White, Super Elastic Waterproofing Material

Description

ULTRASEAL®-UV FS 485 is cement and acrylic based, two component, resistant to UV rays, which is an effective barrier against the salts carried by water and the gases in the atmosphere, super elastic waterproofing material.

Fields of Application

- Indoors and outdoors, horizontal and vertical applications,
- On terraces exposed to UV rays,
- In water storages,
- In elevator pits,
- Wet areas such as bathrooms, balconies, kitchens,
- In Olympic swimming pools,
- In places like baths, saunas, spas,
- In basement curtain walls,
- Can be used in drinking water tanks.

Advantages

- Resistant to UV rays,
- Resistant to negative and positive water pressure,
- Has excellent adhesion properties,
- Easy to prepare and apply,
- Applicable with brush and sprayer,
- Long working time,
- Resistant to light pedestrian traffic on terraces,
- Resistant to frost-thaw effect,
- Resistant to carbon dioxide and chlorine in atmospheric conditions.

Technical Features

Structure of the Material	A Component		Mineral fillings, Special cement, Polymer
	B Component		Copolymer Acrylic Dispersion
Density			1,80 kg/lt
Color			White
Bonding Strength			1,5 N/mm^2
Bending Strength			3,0 N/mm^2
Elasticity Module			2000 N/mm^2
Resistance to water in pressure	2mm dry film thickness		7 bar (Positive)
Capillary water suction	after 4 hours		< 0,10 gr
Application surface temperature			+5°C / +25°C
Service Temperature			-20°C / +80°C
Use time of the fresh mixture			2 hours
Cures in		Mechanical Strength	2 days
		Waterproofing	7 days
Can be coated		Screed or Ceramic	3 days

The values above are given for +23°C and 50% relative humidity. While higher temperatures shorten the period, lower temperatures extend it.

Application Procedure

Preparation of the Substrate

The surface to be applied must be solid, cleaned of all kinds of oil, grease, rust, paraffin, paint, bitumen residues and all loose parts which will prevent sticking to the surface. After iron and wooden wedges are removed from the surface and any active water leaks plugged with **FOX PLUG FC 340**, the gaps, uneven surfaces and corner edges should be repaired with **FOX MORTAR T FC 188 T** repair mortar to be at least 4 cm radius.
The surface should be soaked with water before application, but no pond formation allowed. During application, the coating material immediately loses water and appears to have a matte appearance, indicating that the surface is not sufficiently wetted or dried quickly. If such air is hot or the materials remain in the wind, only 10% of the **ULTRASEAL®-UV FS 485** B component ratio water is added to the blended material for the first coat.

Mixing

The 1/2 of the **ULTRASEAL®-UV FS 485** component B is poured into a clean mixing chamber. While the **ULTRASEAL®-UV FS 485** A component is slowly added, it is mixed for about 3-5 minutes with an electric mixer of 400-600 rpm and the appropriate mixer. The mixture coming to the paste consistency is allowed to rest for 2 minutes, and then the remaining B component is added and mixed for 1-2 minutes to prepare for application.

Mixing Rates

A Component; 20 kg Powder
B Component; 10 kg Liquid

Application

The prepared **ULTRASEAL®-UV FS 485** mixture is applied in two layers with the help of an insulating brush. The direction of brush application on each floor should be perpendicular to each other. Waiting time between layers varies according to ambient conditions.

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Important Note; The **ULTRASEAL®-UV FS 485** has a strength of up to 7 bars (70 meters above water pressure) on the positive side. The resistance of **ULTRASEAL®-UV FS 485** to pressurized water depends on the thickness of the coating to be formed. 4 kg / m² for 3 bar pressure strength and 6 kg / m² for 7 bar pressure strength should be applied in layers.

Cleaning of the Tools

Tools and equipment used after the application should be immediately cleaned with water. **ULTRASEAL®-UV FS 485** can only be mechanically cleaned after curing.

Consumption

1st layer; 1,00 kg/m^2
2nd layer; 1,50 kg/m^2
3rd layer; 1,50 kg/m^2

Watch Points

- In the application of **ULTRASEAL®-UV FS 485**, suitable temperatures should be expected if ambient and surface temperature is below + 5 ° C or above + 25 ° C. The application should not be applied in extremely hot, rainy or windy weather. **ULTRASEAL®-UV FS 485** applied at + 23 ° C gains mechanical strength after 3 days, becomes water-impermeable after 7 days and reaches its final strength after 14 days.
- For exterior applications, the surface must be protected from the sun, wind, rain or water for the first 24 hours. The operating and reaction times of cement and acrylic based systems are affected by the ambient and ground temperature and relative humidity in the air. At low temperatures, the reaction slows down, which extends the life of the pan and the working time. High temperatures accelerate the reaction and the above times are shortened accordingly.
- In order for the material to complete its course, the ambient and ground temperature must not fall below the minimum permissible temperature.
- In practice, the wet film thickness should not exceed 1.30 mm. Areas to be walked on must be covered with **FOX BINDER FM 125** additive screed.
- It is recommended to use **INNO-FIX** series ceramic adhesives for product coating with ceramic, marble, etc.

Package

30 kg Set
A Component; 20 kg polyethylene reinforced Kraft bag
B Component; 10 kg tin gallon

Shelf Life

Shelf life is 12 months from the date of production when stored properly at + 5 ° C to + 30 ° C, room temperature, away from direct sunlight. **ULTRASEAL®-UV FS 485 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

Store in cool and dry conditions protected from frost. In short-term storage, maximum 3 palettes can be stored on top of each other and delivery must be according to first in first out system. In long-term storage, do not store palettes on top of each other.

Health and Safety Precautions

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application. If such a contact occurs, it must be washed by soap and plenty of water. Consult a physician urgently if swallowed. Food and drink must be kept outside the application areas.
Must be stored away from children.
Please look at the Material Safety Data Sheet for detailed information.

Disclaimer

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