

INNO-FLOOR FOX EPOTHANE® PRIMER FL

Epoxy Based, Two Component, Filler Primer

Description

FOX EPOTHANE® PRIMER FL, is epoxy based, two component, low viscosity, filler primer set.

Fields of Application

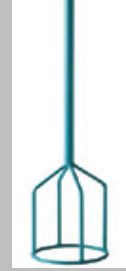
- On porous concrete,
- Normal and high absorbent substrates,
- Before polyurea and spray polyurethane coatings as primer,
- Before **FOX PURMAX® SPRAYTEC** series waterproofing coatings as primer,
- Before **FOX PURMAX®** series polyurethane waterproofing coatings as primer.

Advantages

- It is used indoors and outdoors.
- High chemical and mechanical resistance.
- Easy to apply.
- Excellent surface adherence.
- Liquid impermeable.
- Low viscosity, can be applied easily even in cold weather conditions.
- High splice strength.

Technical Features

Density		1,40 gr/cm ³
Colour		Grey
Mortar Properties with %14,3 Binder		
Compressive Strength	7 days	~ 45 N/mm ²
Flexural Tensile Strength	7 days	~ 15 N/mm ²
Splice Strength	Concrete	>1,5 N/mm ²
Solids by %		%100
Dilution		No Dilution
Application Surface Temperature		+10°C /+30°C
Shore D Hardness	7 days	75
Working Time		45 minutes



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

Physical Features

Temperature	+10°C	+20°C	+30°C
Relative Humidity Ratio	%60	%60	%60
Pot Life	50 minutes	25 minutes	15 minutes
Over Coating Time	Min. 24 - Max. 96 hours	Min. 12 - Max. 48 hours	Min. 6 - Max. 24 hours
Pedestrian Traffic	30 hours	15 hours	8 hours
Light Traffic	3 days	2 days	1 day
Fully Cures	7 days	7 days	7 days

The above values are theoretical. May vary depending on temperature differences and humidity.

Surface Quality

Concrete substrates to be applied must have a strong and sufficient compressive strength (at least 25 N/mm²), tensile strength at least 1.5 N/mm², humidity should be maximum 4%, ground temperature minimum +8°C. In addition, it should be noted that the dew point of the floor must be above +3°C. The substrate must be clean, dry and free from all kinds of dirt, oil, grease, coating and surface curing materials etc.



Application Procedure

Substrate Preparation

Concrete substrates to be applied should be prepared in a way to obtain an open porous surface by removing cement grout by using abrasive equipment (Shot Blasting, milling, diamond polishing etc.). Weak concrete pieces should be removed from the surface, small gaps, holes should be made completely open. The resulting dust should be cleaned

with the help of an industrial vacuum cleaner. Sub-surface repairs must be prepared with suitable products from the **FOX EPOTHANE® PRIMER** series.

Application Conditions

- Surface moisture content must be below 6%.
- Test method: CM - measurement or drying method in the oven
- Relative air humidity should be 80% maximum
- Pay attention to dew and condensation!
- Dew and water vapour condensation on the floor that has not been applied or newly coated will damage the coating. To prevent this, the ground temperature must be above +3°C above the dew point.

Watch Points in Application

Surface Temperature	; Minimum +10°C - Maximum +30°C
Ambient Temperature	; Minimum +10°C - Maximum +30°C
Material Temperature	; Minimum +10°C - Maximum +30°C

Mixing

Before starting the mixture, make sure that the product temperatures are between +15°C and +25°C. Mix A component **EPOTHANE® PRIMER FL** with suitable mixer for 1 minute without dragging air. Then pour component B onto component A. Stir continuously for 2 minutes until you have a homogeneous mixture. If necessary, add 60-70 Afs (0,1- 0,3 mm) silica sand or other fillers after mixing A and B components. Stir for 2 more minutes until you get a homogeneous mixture. Avoid over mixing to minimize air entrainment.

Mixing tools: (300-400 rpm) electric mixer and epoxy / polyurethane resin mixing tip

Application

As Primer

Apply **FOX EPOTHANE® PRIMER FL** with a roller, trowel or a notched trowel. Make sure that the application is made on the whole surface without any gaps. Depending on the surface condition, apply two coats if necessary. 40-45 Afs (0.3-0.5 mm) Silica sand can be sprinkled on while the material is still wet.

Cleaning of the Tools

After the application, the tools and equipment used should be cleaned with solvent. **FOX EPOTHANE® PRIMER FL** can only be removed from the surface by mechanical methods after it hardens.

Coverage

400 – 600 g/m²

Watch Points

- Concrete surfaces to be covered with polyurea must be at least 3 weeks old before application, creating a vapour barrier layer on the floors that sit on the ground, and the roof, walls, doors and windows of the building have been made, the ambient and surface temperature must be at least +10°C and +30°C
- The materials to be used must be brought to the application site 1-2 days prior and must adapt to the ambient conditions.
- In applications to be carried out in cold weather, the ambient and ground temperature should be increased, and the packaging should be prepared at +20°C - 25°C and ready for use in order to increase the processability of the products.
- Rain, dust, wind, animals and pests should be prevented from entering the building while the coating is fresh.
- In resin-based systems, pot life and curing times are affected by ambient temperature, ground temperature and humidity in the air. Curing slows at low temperatures, which increases pot life, over coating time and working time. Curing accelerates at high temperatures, which shortens pot life, over coating time and working time. In order for the entire product to complete its curing, the ambient and ground temperatures should not be lowered below the minimum temperature levels given. After the application is completed, the coating should be protected from direct water contact for at least 24 hours. If water contact occurs, there will be softening and blistering on the coating, which will cause the coating to lose its properties. Therefore, the coating should be completely removed and rebuilt.
- Consumptions are given for ideal conditions where ambient and surface temperatures are considered as 20°C. Actual consumption may vary depending on the surface structure and ambient temperature. It should be remembered that consumption will increase in bad surfaces and cold weather conditions.



- Mixing must be done with an electric mixer of 300-400 rpm and the specified epoxy / polyurethane resin mixing tip. In case of not mixing with the specified mixing tip, air will be dragged into the product, which will cause air bubbles to form on the coating after application.

Package

25 kg set

A Component; 20 kg Tin bucket

B Component; 5 kg Tin bucket

Shelf Life

When stored properly at room temperature, away from direct sunlight, between +5°C and +30°C, its shelf life is 12 months from the date of manufacture.

Storage

It should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 2 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, 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.

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