

INNO-FLOOR FOX EPOTHANE® PRIMER WB

Two Component, Low Viscosity, Solvent Free, Water Based, Epoxy Primer

Description

FOX EPOTHANE® PRIMER WB is epoxy primer, two component, solvent free, water based, vapour permeable, which can be applied on surfaces with moisture and negative water pressure.

Fields of Application

- As a primer on non-porous concrete surfaces,
- As primer on absorbent surfaces,
- As a primer in areas with increased humidity and negative humidity,
- As a primer in cement based systems,
- As a sealing layer in concrete,
- As adherence layer between old concrete and new concrete,
- As primer before epoxy and polyurethane coatings,
- As a primer before **FOX EPOTHANE®** series epoxy floor coatings,
- As a primer before **FOX PURATHANE®** series polyurethane floor coatings,
- As a primer before **FOX PURMAX®** series polyurethane waterproofing coatings.

Advantages

- Used indoors and outdoors.
- It can be applied in closed areas.
- Smells less.
- Does not contain solvent.
- It is not flammable (water based).
- Easy to apply.
- Low viscosity.
- Water Impermeable.
- High mechanical abrasion resistance.
- High surface adherence.
- High splice strength.

Technical Features

Density		1,0 gr/cm ³
Colour		Transparent
Splice Strength	Concret	>3 N/mm ²
Dilution		No Dilution
Application Surface Temperature		+5°C / +30°C
Viscosity ASTM D2196-86		C 3500 cP
Drying Time		5 - 6 hours
Fully Cures		7 days
Pot Life	+25°C	1 hour



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	80 minutes	70 minutes	24 minutes
Over Coating Time	Min. 24 - Max. 35 hours	Min. 12 - Max. 18 hours	Min. 7 - Max. 10 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.



System Details and Coverage

System Details		Product	Coverage
Primer	Primer	FOX EPOTHANE® series (See primer selection chart.)	100-200 gr/m ²
	Surface Roughness <1 mm	1 unit FOX EPOTHANE® series + 0,5 unit Silica Sand 60-70 AFS (0,1-0,3 mm) by weight	200-500 gr/m ²
			100-250 gr/m ²
	Surface Roughness Up to 2 mm	1 unit FOX EPOTHANE® series + 1 unit Silica Sand 60-70 AFS (0,1-0,3 mm) by weight	200-500 gr/m ²
200-500 gr/m ²			

The above values are theoretical and do not include the need for additional materials depending on the surface porosity, profile, differences in levelling and weakening.

Primer Selection Chart

SURFACE CONDITION	RECOMMENDED PRIMER
Concrete in Accordance with The Standard	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER HB, FOX PURMAX® PRIMER 1K RAPID
Moist Substrate	FOX EPOTHANE® PRIMER WB
Moist Substrate (With Moisture Barrier)	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF
High Porous Substrates	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER SL
High Porous Moist Substrates	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF
Steel, Galvanized Steel and Aluminium Surfaces	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER WA, FOX PURMAX® PRIMER 1K RAPID
Wooden Boards and Some Special Surfaces	FOX EPOTHANE® PRIMER, FOX PURMAX® PRIMER 1K RAPID
Asphalt and Bitumen Membrane Surfaces	FOX EPOTHANE® PRIMER SL, FOX EPOTHANE® PRIMER HBF, FOX PURMAX® PRIMER 1K RAPID, FOX PURMAX® PRIMER 1K
Re-Application on Application (Old-New)	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER WA, FOX PURMAX® PRIMER 1K RAPID
Non-Porous Concrete and Non-Absorbent Surfaces	FOX EPOTHANE® PRIMER SL, FOX EPOTHANE® PRIMER HBF, FOX PURMAX® PRIMER 1K RAPID, FOX PURMAX® PRIMER 1K
Ceramic, Marble, Granite and Gloss Surfaces	FOX EPOTHANE® PRIMER WA

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 remove an open porous surface by removing cement grout 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. The ground should be prepared by mixing the 60-70 AFS (0,1-0,3 mm) quartz sand with **EPOTHANE® PRIMER WB** series primer for substrate repairs, filling the voids and smoothing the surface.

Application Conditions

- 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 +8°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 +5°C and +30°C. Mix A component **FOX EPOTHANE® PRIMER WB** 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. Avoid over mixing to minimize air entrainment.

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

Application

FOX EPOTHANE® PRIMER WB is applied by roller in two layers in thin layers. The application direction in each layer should be perpendicular to each other.

Cleaning of the Tools

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

Watch Points

- The use of **FOX EPOTHANE® PRIMER WB** as a primer in areas where moisture is rising and with a negative water pressure, does not mean that it will create a moisture barrier. The coating to be made on the primer must be a moisture-permeable coating.
- Concrete surfaces to be coated with epoxy / polyurethane must be at least 3 weeks old before application, forming 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 +5°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

5 kg Set

A Component; 1,35 kg plastic bucket

B Component; 3,65 kg plastic 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. **FOX EPOTHANE® PRIMER WB** freezes at temperatures below 0°C. Opened packages should be closed tightly and stored in appropriate storage conditions and used within a week.

Storage

It should be stored in its original package, in a cool and dry place protected from frost. In 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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