

INNO-FLOOR FOX EPOTHANE® PRIMER

Epoxy Based, Two Component, Solvent Free, Transparent Primer

Description

FOX EPOTHANE® PRIMER, epoxy based, two component, low viscosity, solvent free, transparent primer set.

Fields of Application

- As a primer before epoxy and polyurethane coatings,
- As a binder for epoxy-based correction mortars and screeds,
- As repair and filling mortar by mixing with appropriate amount of silica sand,
- As primer under **FOX EPOTHANE®** series epoxy floor coatings,
- As a primer under **FOX PURATHANE®** series polyurethane floor coatings,
- **FOX PURMAX®** series is used as a primer under polyurethane waterproofing coatings.

Advantages

- Used indoors and outdoors.
- It can contain a high amount of filler.
- High chemical and mechanical resistance.
- Easy to apply.
- Excellent surface adherence.
- Liquid impermeable.
- Non-slip surface can be obtained.
- Solvent free.
- Low viscosity.
- High adhesion strength.

Technical Properties

Density		1,10 ±0,05 gr/cm ³
Color		Transparent, Yellowish
Mortar Properties With 14.3% Binder		
Compression Strength	7 days	~95 N/mm ²
Flexural tensile strength	7 days	~30 N/mm ²
Adhesion strength	Concrete	≥2 N/mm ²
Percentage of total solids		%100
Thinning		Not Thinning
Floor temperature		+10°C / +30°C
Shore D hardness	7 days	84
Working time		35-40 min



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

Physical Properties

Temperature	+10°C	+20°C	+30°C
Relative Humidity	%60	%60	%60
Pot Life	40 min	35 min	12 min
New Layer Application 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
Full Cure	7 days	7 days	7 days

The above values are theoretical. They may vary according to temperature differences and humidity.



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System Details and Consumption

System Detail		Product	Consumption
Primer	Primer	FOX EPOTHANE® series (See primer selection table.)	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
Mortar Coating and Repair Mortar	5-20 mm layer thickness	1 unit FOX EPOTHANE® PRIMER + 3 units Silica sand 60-70 AFS (0,1-0,3 mm), 3 units Silica sand 40-45 AFS (0,3-0,5 mm), 3 units Silica sand 15-25 AFS (0,7-1,2mm), by weight	2,2 kg/m ² /mm

The above values are theoretical and do not include the need for additional material due to surface porosity, profile, variations in leveling and loss.

Chemical Resistance

Leaded Gasoline	+	Beer	+	Cyclohexane	+	Diesel Oil	+
Sulfuric Acid %30	+	Nitric Acid	+	Acetic Acid	+	Caustic Soda	+
Toluene	+	Xylene	+	Styrene	+	Fruit Juices	+
Ethanol %10	+	Ethylene Glycol	+	Glycerin	+	Milk	+
Sodium Chloride %30	+	Sodium Hydroxide %10	+	Olive Oil	+	Paraffin	+
Petroleum	+	Castor oil	+	Silicone oil	+	Sugar Melt	+
Deionized Water	+	Soap	+	Javel Water	+	Toluene	+

Color change may occur under the influence of chemicals. This research was conducted at room temperature. Higher temperature values and/or mixtures of chemicals may affect chemical resistance.

Primer Usage Table

SURFACE CONDITION	RECOMMENDED PRIMER
Concrete conforming to standard	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER HB, FOX PURMAX® PRIMER 1K RAPID
Moist substrates	FOX EPOTHANE® PRIMER WB
Moist substrates (Moisture Barrier)	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF
High porosity substrates	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER SL
High porosity moist substrates	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF
Steel, galvanized steel and aluminum surfaces	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER WA, FOX PURMAX® PRIMER 1K RAPID
Wood 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-app on the app (Old-New)	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
Tiles, marble, granite and glossy surfaces	FOX EPOTHANE® PRIMER WA

The above values are theoretical and do not include the need for additional material due to surface porosity, profile, variations in leveling and loss.

Surface Quality

The concrete substrates to be applied must be solid and have sufficient compressive strength (at least 25 N/mm²), tensile strength must be at least 1.5 N/mm², humidity must be maximum 4%, ground temperature must be minimum +10°C. It should also be ensured that the dew point of the ground is above +3°C. The substrate must be clean, dry and free from foreign materials such as dirt, oil, grease, coating and surface curing materials etc.



Application Procedure

Substrate Preparation

Concrete sub-surfaces to be applied should be prepared by using abrasive equipment (Shot Blasting, milling cutter, diamond polishing etc.) to remove the cement grout and obtain an open porous surface. Weak concrete pieces should be removed from the surface, small gaps and holes should be made completely open. The resulting dust should be cleaned with the help of an industrial vacuum cleaner. Sub-surface repairs should be made with mortar obtained by mixing 60-70 AFS (0.1-0.3mm) silica sand with **FOX EPOTHANE® PRIMER** primer to fill the gaps and smooth the surface.

Application Conditions

- The surface moisture content must be below 4%.
- Test method: CM - measurement or drying in an oven.
- There should be no rising humidity according to ASTM (Polyethylene cover test).
- Relative air humidity should be 80% maximum.
- Beware of dew and condensation!
- Dew and water vapor condensation on untreated or newly coated floors will damage the coating. To prevent this, the floor temperature must be above +10°C minimum.

Watch Points

Surface Temperature	; Minimum +10°C - Maximum +30°C
Ambient Temperature	; Minimum +10°C - Maximum +30°C
Temperature of the material	; Minimum +10°C - Maximum +30°C

Mixing

Before starting the mixture, make sure that the product temperatures are between +10°C and +30°C. Mix component A **FOX EPOTHANE® PRIMER** with a suitable mixer for 1 minute without dragging air. Then pour component B onto component A. Mix continuously for 2 minutes until a homogeneous mixture is obtained. If necessary, add 60-70 Afs (0.1-0.3 mm) silica sand or other fillers after mixing components A and B. Mix for a further 2 minutes until a homogeneous mixture is obtained. Avoid over-mixing to minimize air entrainment.

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

Application

As Primer

Apply **FOX EPOTHANE® PRIMER** with a roller, trowel or zero comb trowel. Make sure that the application is made on the entire surface without gaps. Apply two coats of primer if necessary depending on the surface condition. If epoxy or polyurethane coating is to be applied on the surface, silica sand 40-45 Afs (0,3-0,5 mm) can be sprinkled on the material while it is still wet.

As Surface Correction Primer

Rough surfaces must be smoothed before epoxy/polyurethane floor coating. Apply the mixture of **FOX EPOTHANE® PRIMER**, silica sand 60-70 AFS (0.1-0.3 mm) as stripping with a zero comb trowel according to the required thickness, taking into account the surface roughness.

As Mortar Coating / Repair Mortar

Apply the mixture of **FOX EPOTHANE® PRIMER**, Silica sand 60-70 AFS (0,1-0,3 mm), Silica sand 40-45 AFS (0,3-0,5 mm), Silica sand 15-25 AFS (0,7-1,2 mm) on the still adhesive FOX EPOTHANE® PRIMER primer using leveling slats. After a short waiting period, compact with a trowel or Teflon coated trowel (usually 20 - 90 rpm) and smooth the surface.

Cleaning Application Tools

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

Watch Points

- The concrete surfaces to be coated with epoxy/polyurethane must be at least 3 weeks old before application, a vapor barrier layer must be formed on the slabs sitting on the ground, the roof, walls, doors and windows of the building must be made, and the ambient and surface temperature must be at least +10°C and maximum +30°C.
- The materials to be used must be brought to the application site 1-2 days in advance and must adapt to the ambient conditions.
- In applications to be made in cold weather, the ambient and ground temperature should be increased, and the packages should be kept at +20°C-25°C to increase the workability of the products and made ready for use.
- Rain, dust, wind, animals and insects should be prevented from entering the building while the coating is fresh.



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- In resin-based systems, pot life and curing times are affected by ambient temperature, floor temperature and humidity in the air. At low temperatures, curing slows down, which extends the pot life, the time it can be covered and the working time. At high temperatures, curing accelerates, which shortens container life, coating time and working time. In order for the product to cure completely, the ambient and floor temperature should not be lowered below the minimum temperature levels given. After completion of the application, the coating should be protected from direct water contact for at least 24 hours. If water contact occurs, softening and blistering will occur on the coating, which will cause the coating to lose its properties. For this reason, the coating must be completely removed and redone.
- Consumptions are given for ideal conditions where ambient and surface temperature is 20°C. Actual consumption may vary depending on surface structure and ambient temperature. It should be kept in mind that consumption will increase in case of defective surfaces and cold weather conditions.
- Mixing must be done with a 300-400 rpm electric mixer and the specified epoxy/polyurethane resin mixing tip. If mixing is not done with the specified mixing tip, air will be entrained into the product, which will cause the formation of air bubbles on the coating after application.

Package

17 kg set

A component; 12 kg tin

B component; 5 kg tin

Shelf Life

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

Storage

It should be stored in its unopened original packaging, in a cool and dry environment, protected from frost. For short-term storage, maximum 2 pallets should be stacked on top of each other and shipment should be made on a 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

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