

# INNO-FLOOR FOX EPOTHANE® BASECOAT

## Epoxy Based, Solvent Free, Self-leveling Coating Material

### Description

**FOX EPOTHANE® BASECOAT**, Epoxy resin based, two-component, high chemical resistance, solvent-free, self-leveling, colored industrial floor coating

### Fields of Application

- In areas subject to heavy/medium/light traffic load,
- In areas requiring chemical and mechanical resistance,
- In the warehouses,
- Production areas,
- Airplane hangars,
- Parking lots,
- In the garages,
- At airports,
- In the galleries,
- In shopping centers,
- In supermarkets,
- In stores and showrooms,
- In the engine rooms,
- In hotels,
- In hospitals and nursing homes,
- In the doctor's offices,
- In schools, in kindergartens,
- Chemical and Pharmaceutical industry,
- In laboratories,
- Used in areas where hygiene is required.

### Advantages

- Easy to apply.
- It can be filled with a high amount of filler.
- High chemical and mechanical resistance.
- High abrasion resistance.
- Easy maintenance and cleaning.
- It is fluid.
- Provides hygienic environments.
- It has a structure that does not allow microbe formation.
- Liquid impermeable.
- Glossy top coat coating is obtained.
- High adhesion strength.
- Does not contain volatile organic matter (VOC-solvent).

### Technical Properties

Density		1,60±0,05 gr/cm <sup>3</sup>
Color		Ral Colors
Compression Strength	7 days	≥65 N/mm <sup>2</sup>
Tensile Strength in Bending	7 days	≥30 N/mm <sup>2</sup>
Adhesion Strength	Concrete	≥1,5 N/mm <sup>2</sup>
Percentage of Total Solids		%100
Floor Temperature		+10°C / +30°C
Thinning		NOT Thinning
Shore D Hardness	7 days	≥85
Abrasion Strength	Taber CS10/1kg/1000dv.	70 mg
Working Time		30-35 min
Recommended Thickness		1,0 mm-3,0 mm

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



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## Physical Properties

Temperature	+10°C	+20°C	+30°C
Relative Humidity	%60	%60	%60
New Layer Application Time	Min. 26 - Max. 32 hours	Min. 18 - Max. 24 hours	Min. 12 - Max. 16 hours
Pedestrian Traffic	30 hours	26 hours	18 hours
Light Traffic	4 days	3 days	2 days
Full Cure	10 days	7 days	7 days

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

## Chemical Resistance

Sugar Water	+	Xylene	+	Leaded Gasoline	+	Styrene	±
%30 Brine	+	Butyl Glycol	-	Sulfuric Acid (%30)	-	Glycerin	+
Tea	+	Propylene Glycol	±	Toluene	+	Olive Oil	±
Coffee	+	%10 KOH	-	Petroleum	±	Silicone Oil	±
Ketchup	±	Ethanol	±	Deionized Water	±	Wine	±
Mayonnaise	±	Butanol	-	Beer	±	Javel Suyu	±
Vinegar	±	Benzyl Alcohol	±	Nitric Acid	-	Methyl Iso Butyl Ketone	-
Lemon Juice	±	Ethyl Acetate	±	Gasoline	±	Diesel Oil	±
Mineral Water	±	Suma	±	%10 NaOH	-	Caustic Soda	+
Fruit Juice	+	Amyl Alcohols	±	Castor Oil	±	Turpentine	±
Carbonated Beverage	+	Methanol	±	Soap	+	Paraffin	±
HCL (%30)	-	Propanol	±	Cyclohexane	±	Perchloroethylene	-

This research was conducted at room temperature. Higher temperatures and/or mixtures of chemicals may affect chemical resistance. Color change may occur due to the effect of chemicals. If the surface is exposed to the chemical, it should be cleaned within maximum 1 hour. (+) Recommended for use. (+-) Conditionally recommended for use. (-) Should not be used.

## 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, 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

## Surface Quality

The concrete substrates to be applied must be solid and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), tensile strength must be at least 1.5 N/mm<sup>2</sup>, humidity must be maximum 4%, ground temperature must be minimum +10°C. It should also be ensured that the temperature of the substrate is above +3°C above the dew point. 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. For sub-surface repairs, filling the gaps and leveling the surface, the floor should be prepared by making mortar obtained by mixing 60-70 AFS (0.1-0.3 mm) quartz sand and **FOX EPOTHANE® PRIMER** series primer.

### 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 mixing, make sure that the product temperatures are between +20°C and +25°C. Component A **FOX EPOTHANE® BASECOAT** contains pigment and filler. Mix the component A product thoroughly with an electric mixer and a suitable mixing tip until a homogeneous color is obtained and until you are sure that there is no product left on the bottom and edges of the container. After adding Component B completely into Component A, mix for at least 3 minutes until a homogeneous mixture is obtained. After mixing components A and B, add the required amount of 60-70 Afs (0.1-0.3 mm) silica sand according to the system to be applied and mix for another 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

#### Primer

**FOX EPOTHANE® BASECOAT** surfaces must have been previously primed with **FOX EPOTHANE®** series primer. Floor temperature (min +10°C) must be observed. **FOX EPOTHANE® BASECOAT** should be applied on the primer within the application period.

#### Coating

**FOX EPOTHANE® BASECOAT** is poured onto the surface and applied evenly with a notched trowel. When the coating reaches the appropriate consistency, a spiked roller should be applied and the air should be removed. If the application of the spiked roller is delayed, spiked roller marks may remain on the surface. If the floor surface is homogeneous and free of gaps, there is no need to apply a spiked roller.

### Cleaning Application Tools

Tools and equipment used after application should be cleaned with solvent or epoxy thinner. **FOX EPOTHANE® BASECOAT** can only be cleaned from the surface by mechanical methods after hardening.

### Watch Point

- 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 should be brought to the application site 1-2 days in advance and should 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.



- 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 prolongs 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 stated in the system technical documents are given for +23°C and 50% relative humidity. Actual consumption may vary depending on surface structure and ambient temperature. It should be kept in mind that consumption will increase in case of uneven 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

30 kg set

A Component; 24,9 kg / tin

B Component; 5,1 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 3 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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