

INNO-FLOOR FOX EPOTHANE® THINCOAT

Epoxy Based, Two Component, Solvent Free, Thin Floor Coating

Description

FOX EPOTHANE® THINCOAT is epoxy resin based, two component, high chemical resistance, solvent free, coloured thin floor coating.

Fields of Application

- Areas exposed to light/medium traffic loads,
- Areas requiring chemical resistance,
- Schools and kindergartens,
- Chemical and pharmaceutical industries,
- Laboratories,
- Depots,
- Production areas,
- Car parks,
- Garages,
- Airports,
- Galleries,
- Shopping malls,
- Supermarkets,
- Magazines and showrooms,
- Engine rooms,
- Hotels,
- Hospitals and nursery homes,
- Clinics,
- Areas where hygiene is desired.

Advantages

- Easy to apply.
- It can be filled with a high amount of filling.
- It has high chemical and mechanical resistance.
- High Abrasion resistance.
- Easy to clean and maintain.
- Fluid.
- Provides hygienic environments
- It has a structure that does not allow microbe formation.
- Liquid impermeable.
- Gloss topcoat can be obtained.
- High splice strength
- Does not contain volatile organic substance (VOC-solvent).

Technical Features

Density		1,40 gr/cm ³
Colour		Ral Colours
Compressive Strength	7 days	65 N/mm ²
Flexural Tensile Strength	7 days	40 N/mm ²
Splice Strength	Concrete	>1,5 N/mm ²
Solids by %		100%
Application Surface Thickness		+10°C /+30°C
Dilution		No Dilution
Shore D Hardness	7 days	85
Abrasion Resistance	Taber CS10/1kg/1000dv.	60 mg
Working Time		35 minutes
Recommended Thickness		0,35 mm – 0,40 mm

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
Over Coating 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
Fully Cures	10 days	7 days	7 days

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

Chemical Resistance

Sugared Water	+	Xylene	+	Leaded Benzene	+	Styrene	+-
30% Salty Water	+	Butyl Glycol	-	Sulphuric Acid (%30)	-	Glycerine	+
Tea	+	Propylene Glycol	+-	Toluene	+	Olive Oil	+-
Coffee	+	10% KOH	-	Petrol	+-	Silicone Oil	+-
Ketchup	+-	Ethanol	+-	Deionize Water	+-	Wine	+-
Mayonnaise	+-	Butanol	-	Beer	+-	Javel Water	+-
Vinegar	+-	Benzyl Alcohol	+-	Nitric Acid	-	Methyl Iso Butyl Keton	-
Lemon juice	+-	Ethyl Acetate	+-	Benzene	+-	Diesel Oil	+-
Mineral Water	+-	Suma	+-	%10 NaOH	-	Caustic Soda	+
Fruit juice	+	Amyl Alcohols	+-	Castor Oil	+-	Turpentine	+-
Carbonated Drink	+	Methanol	+-	Soap	+	Paraffin	+-
HCL (%30)	-	Propanol	+-	Cyclohexane	+-	Perchlorethylene	-

This research was done at room temperature. High temperature values and / or mixtures of chemicals can affect chemical resistance. Color change may occur due to the effects of chemicals. If the surface is exposed to the chemical, it should be cleaned within a maximum of 1 hour. It is recommended to use (+). Conditional use (+ -) is recommended. (-) Should not be used

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 is 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 series primer for substrate repairs, filling the voids and smoothing the surface.



Application Conditions

- Surface moisture content should be below 4%.
- Test method: CM - measurement or drying method in the oven.
- There should be no rising humidity according to ASTM. (Polyethylene cover test).
- 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. A component **FOX EPOTHANE® THINCOAT** contains pigment and filler. Mix the A component product thoroughly with an electric mixer and a suitable mixing tip until you get a homogeneous colour and make sure that there is no product at the bottom and sides of the container. After adding the B component product to the A component product, mix it for at least 3 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

Primer

Surfaces to be made with **FOX EPOTHANE® THINCOAT** must be previously primed with **FOX EPOTHANE®** series primer. Attention should be paid to the floor temperature (min +8°C). **FOX EPOTHANE® THINCOAT** should be applied on the primer within the application period.

Coating

FOX EPOTHANE® THINCOAT is poured on the surface and applied properly with a notched trowel. Immediately after the application of the notched trowel, it is scanned with a roller.

Cleaning of the Tools

After the application, the tools and equipment used should be cleaned with solvent or epoxy thinner. **FOX EPOTHANE® THINCOAT** can only be removed from the surface by mechanical methods after hardening.

Coverage

It is applied in 2 coats with a total of 0,5- 0,6 kg/m² consumption.

Watch Points

- 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 +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

30 kg set

A Component; 23,25 kg / tin

B Component; 6,75 kg / tin

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 3 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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