

INNO-FLOOR FOX EPOTHANE® BASECOAT AS

Epoxy Based, Two Component, Solvent Free, Antistatic Self Levelling Coating

Description

FOX EPOTHANE® BASECOAT AS is an epoxy resin-based, two-component, easy-to-clean, hygienic, solvent-free, self-levelling floor coating that is applied on floors where antistatic surface is desired with highly mechanical and chemical abrasion resistance.

Fields of Application

- In areas where explosive and flammable chemicals are produced, stored and used,
- Computing system rooms with sensitive electronic equipment,
- Aircraft hangars,
- Chemical and pharmaceutical industries,
- Laboratories,
- Operation rooms,
- Areas where hygiene is desired.

Advantages

- Easy to apply.
- After curing, it shows excellent antistatic coating feature.
- High Chemical and mechanical strength.
- Easy to clean and maintain.
- Fluid.
- Creates hygienic environments.
- It has a surface 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	28 days	60 N/mm ²
Flexural Tensile Strength	28 days	30 N/mm ²
Splice Strength	Breaking concrete	>1,5 N/mm ²
Solids by %		%100
Dilution		No dilution
Application Surface Temperature		+10°C / +30°C
Shore D Hardness	7 days	83
Working Time		1,5 hours
Recommended Thickness		1,0 mm - 1,5 mm



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

Physical Features

Temperature	+10°C	+20°C	+30°C
Relative Humidity Ratio	%60	%60	%60
Over Coating Time	Min. 24 - Max. 35 hours	Min. 12 - Max. 18 hours	Min. 7 - Max. 10 hours
Pedestrian Traffic	16 hours	13 hours	10 hours
Light Traffic	3 days	2 days	1 day
Fully Cures	10 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
Coating System	Conductive Basecoat	FOX EPOTHANE® PRIMER WB AS	80-120 gr/m ²
	Grounding Connection	Self-adhesive copper tape to be applied to approximately every 10 m diameter (Please refer to our Technical Service for application details).	
	Conductive Self Levelling System Coating 1 mm thickness	FOX EPOTHANE® BASECOAT AS	1,32 kg/m ² /mm

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.

Chemical Resistance

Leaded Benzene	+	Beer	+	Cyclohexane	+	Diesel Oil	+
Sulphuric Acid %30	+	Nitric Acid	+	Acetic Acid	+	Caustic Soda	+
Toluene	+	Benzene	+	Styrene	+	Fruit Juice	+
Ethanol % 10	+	Ethylene Glycol	+	Glycerine	+	Turpentine	+
Sodium Chloride %30	+	Sodium Hydroxide %10	+	Olive Oil	+	Paraffin	+
Petrol	+	Castor oil	+	Silicone Oil	+	Sugary Melt	+
Deionize Water	+	Soap	+	Javel Water	+	Toluene	+
Xylene	+ -	Ethanol	+ -	Methyl Iso Butyl Keton	+ -	Perchlorethylene	+ -
Butanol	+ -						

Colour change may occur due to the effects of chemicals. This research was done at room temperature. High temperature values and / or mixtures of chemicals can affect chemical resistance. (+): Durable (+ -): Partially Resistant.

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

Note that the product temperatures are between +15/ +25°C before starting the mixture. A component FOX EPOTHANE® BASECOAT AS contains pigment and filler. Stir 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 on 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® BASECOAT AS** must be previously primed with **FOX EPOTHANE®** series primer. Attention should be paid to the floor temperature (min +8°C).

Conductive Coating Application

EPOTHANE® PRIMER WB conductive primer is applied to the entire surface with the help of a roller without leaving any gap.

Fixing Grounding Connections

According to the pre-made planning, copper bar tapes are adhered to the surface to be applied to every 10 m diameter.

Coating

EPOTHANE® BASECOAT AS is poured on the surface and applied properly with a notched trowel. When the coating reaches the proper consistency, the air should be removed by applying a spiked roller. If the spiked roller application is late, spiked roller marks may remain on the surface.

Cleaning of the Tools

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

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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