

INNO- DECO

FOX EPOTHANE® ISO-CRACK EP-2K

Epoxy Polyurethane Based, Two Component, Crack Bridging Membrane

Description

FOX EPOTHANE® ISO-CRACK EP-2K is epoxy polyurethane based, 100% solid containing, flexible epoxy-polyurethane membrane designed to prevent cracking on the surface in Fox Bau Terrazzo coating systems. The unique bonding and elongation properties of the resin provide exceptional crack bridging and are recommended for use on interior concrete surfaces before laying the floor. Provides 140-160% elongation, which allows horizontal surface movement.

Fields of Application

- Interiors and exteriors,
- Airports,
- Hospitals,
- Galleries,
- Shopping malls,
- Super markets,
- Magazines and showrooms,
- Crack bridging under FOX BAU TERRAZZO COATING systems in hotels,
- It is used for bridging the crack before coatings over existing cracks.

Advantages

- It is 100% solid for low odour and workplace safety during installation.
- Provides perfect adherence.
- Has excellent chemical resistance.
- Absorbs movement to prevent reflective cracking.
- Has excellent cold weather resistance.
- It is made of flexible resins and does not contain plasticizers, it provides excellent long-term flexibility.
- It is flexible, resistant to abrasion.
- It has the ability to cover cracks.
- Adhesion strength is high.
- Suitable for local repairs.

Technical Features

Density		1,10±0,05 gr/cm ³
Colour		Cream
Tensile Strength	DIN 53504	+23°C ≥ 10 N/mm ²
Splice Strength	Concrete	1,83 N/ mm ²
Splice Strength	Concrete	2,95 N/ mm ² (Epothane® Primer used surface)
Splice Strength	Steel	1,00 N/ mm ²
Splice Strength	Steel	1,57 N/ mm ² (Epothane® Primer used surface)
Solids by %		% 100
Dilution		No dilution
Shore A Hardness	7 days	65
Shore D Hardness	7 days	19
Thermal Resistance	24 hours (-23°C/+25°C)	No Crack
Elongation at Break	DIN 53504	+23°C ≥ %140-160
Working Time		45-50 minutes

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



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 ground is above +3°C. The substrate should be clean, dry and free from all kinds of dirt, oil, grease, coating and surface curing materials etc.



Application Procedure

Substrate Preparation

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 floor temperature must be above +8°C.

Watch Points in Application

Surface Temperature	; Minimum +8°C - Maximum +30°C
Ambient Temperature	; Minimum +10°C - Maximum +30°C
Material Temperature	; Minimum +15°C - Maximum +30°C

Concrete Surfaces

Oil, grease, fuel and paraffin wastes must be removed, as well as mould release agents, cement residues, chips, loose particles and cured membranes.

Mixing

A component **FOX EPOTHANE® ISO-CRACK EP-2K** contains pigment and filler. Stir A component product thoroughly with an electric mixer and a suitable mixing tip until you get a homogeneous color 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, add 3-4 minutes until you get a homogeneous mixture. stir continuously throughout. Avoid over mixing to minimize air entrainment.

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

Application

Primer

Surfaces to be made with **FOX EPOTHANE® ISO-CRACK EP-2K** must be previously primed with **FOX EPOTHANE®** series primer. Attention should be paid to the floor temperature (min +8°C). **FOX EPOTHANE® ISO-CRACK EP-2K** should be applied on the primer within the application period.

Coating

FOX EPOTHANE® ISO-CRACK EP-2K can be poured onto the surface and applied properly with a comb or trowel on a single coat. 20-25 minutes after **FOX EPOTHANE® ISO-CRACK EP-2K** application, **VERTEX GLASS FIBER MESH FABRIC 160 gr/m²** mesh material is laid on the application and rolled over.

Cleaning of the Tools

After the application, the tools and equipment used should be cleaned with solvent. **FOX EPOTHANE® ISO-CRACK EP-2K** can only be removed from the surface by mechanical methods after hardening.

Coverage

1,00-1,50 kg/m²

Watch Points

- Concrete surfaces to be coated with epoxy / polyurethane must be at least 3 weeks old before application, creating a vapour barrier layer on the floors that sit on the ground, and building roof, walls, doors and windows. Ambient and surface temperature should be minimum +8°C and maximum +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 in cold weather, the ambient and ground temperature should be increased, and the packages should be prepared at +20°C - 25°C and ready for use in order to increase the workability 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

20 kg Set

A Component; 17,75 kg tin bucket

B Component; 2,25 kg tin bucket

Shelf Life

When stored properly at room temperature, away from direct sunlight, between +5°C and +30°C, its shelf life is 6 months from the date of manufacture.

Storage

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