

INNO-FLOOR FOX EPOTHANE® TOPCOAT

Epoxy Based, Two Component, Solvent Based, Lightly Textured Floor Coating Material

Description

FOX EPOTHANE® TOPCOAT is an epoxy resin based, two component, solvent based, lightly textured floor coating material with high chemical resistance.

Fields of Application

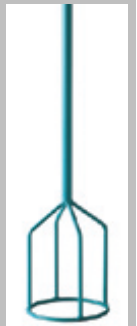
- In areas subject to medium/light traffic load,
- In areas requiring chemical resistance,
- Schools and kindergartens,
- In the Chemical and Pharmaceutical industry,
- Laboratories,
- Depots,
- Production Areas,
- Carparks,
- Garages,
- Airports,
- Galleries,
- Shopping Malls,
- Super markets,
- Magazine and Showrooms,
- In engine rooms,
- Hotels,
- Hospitals and nursing homes,
- Clinics,
- Used in areas where hygiene is required.

Advantages

- Easy to apply.
- It can be filled with a high rate of filler.
- It has high chemical resistance.
- High abrasion resistance.
- Easy to maintain and clean.
- Fluid.
- Provides hygienic environments.
- It has a structure that does not allow the formation of microbes.
- Liquid impermeable.
- Glossy top coat is obtained.
- High adhesion strength.
- Does not contain volatile organic matter (VOC-solvent).

Technical Features

Density		1,76±0,05 gr/cm ³
Color		Ral Colors
Compressive Strength	7 days	≥65 N/mm ²
Flexural Tensile Strength	7 days	≥25 N/mm ²
Splice Strength	Concrete	>2,0 N/mm ²
Solids by %		80%
Application Surface Temperature		+10°C /+30°C
Dilution		No Dilution
Shore D Hardness	7 days	≥75
Abrasion Resistance	Taber CS10/1kg/1000dv.	60 mg
Working Time		~30 minutes



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



Surface Quality

Concrete substrates on which the application will be made must be strong and have sufficient compressive strength (minimum 25 N/mm²), tensile strength at least 1.5 N/mm², humidity maximum 4%, floor temperature minimum +8°C. In addition, care should be taken to ensure that the temperature of the floor is +3°C above the dew point. The substrate must be clean, dry and free of all kinds of dirt, oil, grease, coating and surface curing materials, etc.

Application Procedure

Substrate Preparation

Concrete substrates on which the application will be made should be prepared using abrasive equipment (Shot Blasting, milling, diamond grinding, 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 industrial vacuum cleaner. For sub-surface repairs, filling gaps and smoothing the surface, the floor should be prepared by mixing 60-70 AFS (0.1-0.3 mm) quartz sand with **FOX EPOTHANE® PRIMER** series primer.

Application Conditions

- Surface moisture content should be below 4%.
- Test method: CM - measurement or oven drying method.
- According to ASTM, there should be no rising humidity. (Polyethylene cover test).
- Relative air humidity should be 80% maximum.
- Pay attention to dew and condensation!
- Dew and water vapor condensation on the untreated or newly coated floor will damage the coating. To prevent this, the ground temperature must be +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® TOPCOAT** contains pigment and filler. Mix the A component product thoroughly with an electric mixer and a suitable mixing tip until a homogeneous color is obtained and you are sure that there is no product left on the bottom and sides of the container. After adding the B component product to the A component product completely, mix it for at least 3 minutes until a homogeneous mixture is obtained. Avoid over-mixing to minimize air entrainment.

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

Application

Primer

The surfaces on which **FOX EPOTHANE® TOPCOAT** will be made must be primed with **FOX EPOTHANE®** series primer beforehand. The ground temperature (min +8°C) must be paid attention to. **FOX EPOTHANE® TOPCOAT** should be applied on the primer during the application period.

Coating

FOX EPOTHANE® TOPCOAT is poured onto the surface and applied evenly with a notched trowel. It is combed with a roller immediately after the application of comb trowel.

Cleaning of the Tools

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

Coverage

0,5- 0,6 kg/m² (each layer)

Watch Points

- The concrete surfaces to be coated with epoxy/polyurethane should be at least 3 weeks old before the application, a vapor barrier layer should be formed on the floors resting on the earthen ground, and the roof, walls, doors and windows of the building should be made, and the ambient and surface temperature should be minimum +10°C and maximum +30°C.
- The materials to be used must be brought to the application area 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 made ready for use by keeping them at +20°C - 25°C in order to increase the workability of the products.



- Rain, dust, wind, animals and insects should be prevented from entering the building when the coating is fresh.
- Pot life and curing times in resin-based systems are affected by ambient temperature, floor temperature and humidity in the air. Curing slows down at low temperatures, which extends pot life, cover time and working time.
- Curing is accelerated at high temperatures, which shortens pot life, coating time and working time. In order for the entire product to complete its curing, the ambient and ground temperature must 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 there is water contact, there will be softening and swelling on the coating, which will cause the coating to lose its properties. Therefore, the coating must be completely removed and redone.
- Coverages are given for ideal conditions where the ambient and surface temperature is 20°C. Actual coverage may vary depending on the surface structure and ambient temperature. It should not be forgotten that coverage will increase in uneven surfaces and cold weather conditions.
- Mixing must be done with an electric mixer at 300-400 rpm 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 air bubbles to form on the coating after application.

Package

30 kg set

A Component; 25,20 kg / tin

B Component; 4,80 kg / tin

Shelf Life

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

Storage

It should be stored in its unopened original package, in a cool and dry environment, protected from frost. In short-term storage, maximum 3 pallets should be placed on top of each other and shipment should be made with a 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.

Disclaimer

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SARTECH YAPI MALZEMELERİ SANAYİ VE TİCARET LTD. ŞTİ.

Merkez: Organize Sanayi Bölgesi 1. Kısım 7. Cadde No:6 Döşemealtı/ANTALYA
Telefon: 0(242) 221 42 50 Fax: 0(242) 221 42 55
Şube : Yayaş Mah. Organize Sanayi 7. Cadde No:21 Yenişehir/DIYARBAKIR
Web : www.foxbau.com E-mail : info@foxbau.com