

INNO-FLOOR FOX EPOTHANE® TOPCOAT EU

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

Description

FOX EPOTHANE® TOPCOAT EU, is an epoxy based, two-component, high chemical resistance, solvent-free, light textured, floor coating material.

Fields of Application

- In areas subject to medium/light traffic load,
- In areas requiring chemical resistance,
- In schools, in kindergartens,
- Chemical and Pharmaceutical industry,
- Laboratories,
- In the warehouses,
- Production areas,
- Parking lots,
- In the garages,
- Airports,
- Galleries,
- Shopping centers,
- Supermarkets,
- Stores and showrooms,
- Hotels,
- Hospitals and nursing homes,
- In the doctor's offices,
- Used in areas where hygiene is required.

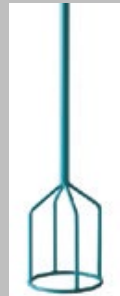
Advantages

- Easy to apply.
- It can be filled with a high amount of filler.
- It has high chemical resistance.
- High abrasion resistance.
- Easy maintenance and cleaning.
- It is liquid.
- 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		1,40±0,05 gr/cm ³
Color		Ral Colors
Compressive Strength	7 days	≥65 N/mm ²
Flexural Strength	7 days	≥25 N/mm ²
Adhesion Force to Substrate	Concrete	>2,0 N/mm ²
Percentage of Total Solids		%80
Application Floor Temperature		+10°C /+30°C
Dilution		Do not dilute
Shore D Hardness	7 days	≥75
Abrasion Strength	Taber CS10/1kg/1000dv.	60 mg
Working Time		~30 min

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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Surface Quality

Concrete substrates to be applied must be solid and have sufficient compressive strength (at least 25 N/mm²), tensile strength must be at least 1.5 N/mm², 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, 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 an industrial vacuum cleaner. For sub-surface repairs, filling the gaps and leveling the surface, the ground 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 Requirements

- Surface humidity should be below 4%.
- Test method: CM - measurement or drying 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 +3°C above the dew point.

Points to be considered in the 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 mixing, make sure that the product temperatures are between +10°C and +30°C. Component A of **FOX EPOTHANE® TOPCOAT EU** 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 you are sure that there is no product on the bottom and sides of the container. After adding Component B completely into Component A, mix for at least 3 minutes until a homogeneous mixture is obtained. Avoid over mixing to minimize air entrainment.

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

Application

Primer

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

Coating

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

Cleaning of Tools

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

Consumption

0,3-0,5 kg/m²



Watch Points

- 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 area 1-2 days in advance and should adapt to the ambient conditions.
- In cold weather applications, the ambient and ground temperature should be increased and the packages should be kept at +20°C - 25°C to increase the processability of the products.
- 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, ground temperature and humidity. Curing slows down at low temperatures, which increases pot life, coating time and uptime.
- Curing is accelerated at high temperatures, which shortens the pot life, coating time and working time. In order for the product to cure completely, the ambient and ground 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. Therefore, the coating must be completely removed and reapplied.
- Consumptions are given for ideal conditions where ambient and surface temperature is 20°C. Actual consumption may vary depending on surface structure and ambient temperature. It should be kept in mind that the consumption will increase in case of defective 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 kg/tin

B Component; 6 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

The data contained in this technical document is based on our scientific and practical knowledge. SARTECH Yapı Malz. San. ve Tic. Ltd. Şti. is only responsible for the quality of the product. Our company cannot be held responsible for the consequences that may occur due to misuse and/or other than the written suggestions about where and how the product will be used. For detailed information, the safety data sheet and technical data sheet should be consulted or our company officials should be contacted.



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