

INNO-FLOOR FOX EPOTHANE® COLORTOP

Epoxy Based, Roll-Applied, Colored, Primer and Coating Material

Description

FOX EPOTHANE® COLORTOP, is an epoxy resin-based, two-component, high chemical resistance, roller-applied, colored, primer and coating material.

Fields of Application

- As primer and coating in **FOX DECOFLAKE CLASSIC** system,
- Indoors, on horizontal surfaces,
- As a topcoat protective coating for sand-rough surfaces,
- Parking lots, garages,
- As a topcoat protector,
- As primer before epoxy-based floor coatings,
- As primer before polyurethane-based floor coatings,
- In areas subject to medium/light traffic load,
- In areas requiring chemical resistance,
- In the chemical and pharmaceutical industry,
- In laboratories,
- In warehouses, in production areas,
- Used in airports, supermarkets.

Advantages

- Can be used as both primer and coating.
- 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 fluid.
- Provides hygienic environments.
- It has a structure that does not allow microbe formation.
- Liquid impermeable.
- Glossy top coat coating is obtained.
- Adhesion strength is high.

Technical Properties

Density		1.50±0.05 gr/cm ³
Color		RAL7001, RAL7032, RAL7035, RAL9010 and RAL Colors
Shore D Hardness		≥75
Adhesion Strength	EN 1542	≥2.5 N/mm ²
A+B Comp. Viscosity (25°C)		~ 1200 mPa.s
Thinning		Not Thinning
Working Time		~ 45 min
Floor Temperature		+10°C/+30°C
Pedestrian Traffic		1 day
Light Traffic		3 days
Full Cure		7 days

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

Surface Quality

The 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

The 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. Gaps, cracks and broken concrete on the sub-surface should be filled and surface smoothness should be ensured. For surface repairs, filling the gaps and smoothing the surface, **FOX MORTAR FC188 T/FOX FATSMORTAR FC245/FOX FASTMORTAR FC233** or mortar obtained by adding approximately 1.5 units of 60-70 AFS (0.1-0.3 mm) quartz sand into 1 unit of **FOX EPOTHANE® COLORTOP**.

Application Conditions

- Surface moisture content should be below 4%.
- Test method: CM-measurement or oven drying method.
- There shall be no rising humidity according to ASTM (Polyethylene cover test).
- Relative air humidity should be 80% maximum.
- Beware of dew and condensation!
- Dewing and condensation of water vapor on untreated or newly coated floors will damage the coating. To prevent this, the floor temperature must be +3°C above the dew point.

Watch Points

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 contains **FOX EPOTHANE® COLORTOP** 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 until you are sure that there is no product left on the bottom and edges 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 resin mixing tip.

Application

Priming

After the surface preparation is completed, **FOX EPOTHANE® COLORTOP** is poured onto the surface and applied by spreading with a trowel. After trowel application, the priming process is completed by combing with a roller. Floor temperature (min +10°C) must be observed.

Coating

In sand-roughened systems; the material is applied to the surface with a rubber squeegee and then the application is completed by combing with a roller.

In roller applications; the material is poured on the surface and applied with a trowel and then the application is completed by combing with a roller.

In FOX DECOFLAKE system; the material is poured onto the surface and applied with a trowel and then the application is completed by combing with a roller.

Curing time can be accelerated by using **FOX EPOTHANE® ACC. FOX EPOTHANE® ACC** Please contact the technical unit for the instructions for use of product.

Cleaning of Tools

Tools and equipment used after application should be cleaned with solvents such as **FOX CS810, FOX C380. FOX EPOTHANE® COLORTOP** can only be cleaned from the surface by mechanical methods after hardening.

Consumption

When used as topcoat in sand-rough systems; ~0.8-1.0 kg/m²

In roll applications; ~0.35 kg/m²

In FOX DECOFLAKE system; as primer and coating; ~0.50 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 site 1-2 days in advance and should 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 kept at +20°C-25°C to increase the workability of the products and made ready for use.
- 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, floor temperature and humidity in the air. At low temperatures, curing slows down, which extends the pot life, the time it can be covered and the working time.
- At high temperatures, curing accelerates, which shortens container life, coating time and working time. In order for the product to cure completely, the ambient and floor 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. For this reason, the coating must be completely removed and redone.
- 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 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

5 kg set

Component A; 4.10 kg/tin

Component B; 0.90 kg/tin

30 kg set

Component A; 24.60 kg/tin

Component B; 5.40 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. Fox Bau Yapı Kimyasalları A.Ş. 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.

