

# INNO-FLOOR FOX PURATHANE® TOPCOAT

## Polyurethane Based, Two Component, High Performance, Topcoat

### Description

**FOX PURATHANE® TOPCOAT**, is modified polyurethane based, two component, high abrasion resistant, topcoat material.

### Fields of Application

- As a topcoat on **FOX EPOTHANE®**, **FOX PURATHANE®** and **FOX CARPARK®** series floor coating systems,
- As a topcoat on old epoxy and polyurethane coatings,
- As a topcoat on old ceramic, marble, granite,
- Depots,
- Production areas,
- Aircraft hangars,
- Car parks,
- Garages,
- Airports,
- Shopping malls,
- Congress and exhibition halls,
- Hotels,
- Hospitals and nursery homes,
- Schools and kindergartens,
- Chemical and pharmaceutical industries.

### Advantages

- It provides perfect adherence,
- It has high chemical and abrasion resistance,
- It has high mechanical strength,
- Flexible,
- Easy to apply,
- High adhesion strength,
- Easy to maintain and clean,
- Provides hygienic environments,
- Dirt-proof,
- Liquid impermeable,
- Does not contain volatile organic substance (VOC-solvent).

### Technical Features

Colour		Ral Colours
Density		1,38 gr/cm <sup>3</sup>
Working Time		30 minutes
Solids by %		98%
Dilution		No Dilution
Drying Time		3 hours
Pedestrian / Light Traffic		12 hours
Pot Life		1 hour
Fully Cures		7 day
Pendulum Hardness	König ISO 1522	86s
Taber Abrasion Resistance	1 kg.CS 10,1000 d.	~40 mg
Impact Test	Fall Height 0,5 / 1mt	5



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



## Physical Features

Temperature	+10°C	+20°C	+30°C
Working Time	70 minutes	50 minutes	30 minutes
Pedestrian Traffic	24 hours	18 hours	12 hours
Fully Cures	7 days	5 days	3 days

The above values are theoretical. May vary depending on temperature differences and humidity.

## 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

## Application Procedure

### Substrate Preparation

The surface should be cleaned using pressurized water if possible, oil, grease, fuel and paraffin wastes should be removed, as well as completely free from mould release agents, cement residues, chips, loose particles and contaminated membranes. Weak concrete pieces should be removed from the surface, if any, cracks should be made more open. The resulting dust should be cleaned with the help of an industrial vacuum cleaner. For surface repairs, filling the voids and smoothing the surface, 60-70 AFS (0,1-0,3mm) silica sand should be used by mixing with **FOX EPOTHANE® PRIMER** according to the condition of the area to be repaired. If **FOX PURATHANE® TOPCOAT** is used as a topcoat on **FOX CARPARK® SYSTEM** application, there is no need to apply a primer in sprinkler sand applications depending on the system.

### Application Conditions

- The amount of water and moisture on the ground should be below 4%. Test method: C-Aquameter, CM-Device, Darr Method.
- There should be no rising humidity according to ASTM.
- 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 should be above +3°C.

### Mixing

Before starting the mixture, make sure that the product temperatures are between +15°C and +25°C. A component **FOX PURATHANE® TOPCOAT** contains colour, pigment and filling. Stir A component product thoroughly with an electric mixer and a suitable mixing tip until you get a homogeneous colour and make sure component product, mix continuously for 3-4 minutes until you get a homogeneous mixture. Avoid over mixing to minimize that there is no product at the bottom and sides of the container. After adding the B component product to the A air entrainment. Mixing tools: (300-400 rpm) electric mixer and epoxy / polyurethane resin mixing tip



## Application

**FOX PURATHANE® TOPCOAT** should be applied with a roller on the surface. In order to minimize roll marks, it is essential to make sure that the layers that follow each other are wet. The application should be made along the short edge, and each new application should be made right next to the previous one. By passing over the material with a second roller, it should be ensured that the material is distributed homogeneously and there are no traces of rolls. Application between coats should be done after 3 hours depending on the ambient temperature. In order to get ideal performance from the product, a minimum of 2 coats should be applied.

## Cleaning of the Tools

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

## Coverage

~200-600 gr/m<sup>2</sup> in 2 layers

## Watch Points

- Ambient, surface and material temperature should be between +10°C and +30°C, material temperature.
- The materials to be used must be brought to the application site 1 - 2 days in advance and must adapt to the environmental conditions. In applications to be carried out 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 applicability of the products.
- Rain, dust, wind, animals and pests should be prevented from coming onto the coating 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; 16,40 kg tin

B Component; 3,60 kg tin

## 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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