

INNO-FLOOR FOX PURATHANE® TOPCOAT UV

Polyurethane Based, Two Component, High Performance, UV Resistant, Top Coat Floor Coating

Description

FOX PURATHANE® TOPCOAT UV, modified polyurethane based, two components, UV resistant, high abrasion resistance, top coat coating material.

Fields of Application

- As a top coat in **FOX EPOTHANE®**, **FOX PURATHANE®** and **FOX CARPARK®** series floor systems,
- As a top coat on old epoxy and polyurethane coating,
- As a final coating on old ceramics, marble, granite,
- In warehouses,
- In production areas,
- In aircraft hangars,
- In parking lots,
- In garages,
- At airports,
- In shopping centers,
- In congress and exhibition halls,
- In hotels,
- In hospitals and nursing homes,
- In Schools, Kindergartens,
- In the Chemical and Pharmaceutical industry,

Advantages

- Provides excellent adherence.
- UV Resistant, resistant to sun rays.
- It has high chemical and abrasion resistance.
- It has high mechanical strength.
- It is flexible.
- Easy to apply.
- It has high adhesion strength.
- It is easy to maintain and clean.
- Provides hygienic environments.
- Does not hold dirt.
- It is liquid impermeable.
- Does not contain volatile organic matter (VOC-solvent).

Technical Properties

Color	Ral Colors
Density	1,38 gr/cm ³
Workability Time	30 minutes
Total Solid Material Ratio	98%
Dilution	None
Drying Time	3 hours
Time to Open to Light Pedestrian Traffic	12 hours
Pot Life	1 hour
Getting Full Cured	7 days
Pendulum Hardness	König ISO 1522 86s
Taber Abrasion Test	1 kg.CS 10,1000 d. ~40 mg
Impact Test	Drop height 0.5 / 1m 5



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



Physical Properties

Temperature	+10°C	+20°C	+30°C
Application Time	70 min.	50 min.	30 min.
Pedestrian Traffic	24 hours	18 hours	12 hours
Getting Full Cured	7 days	5 days	3 days

The above values are theoretical. It may vary according to temperature differences and humidity.

Primer Selection Table

SURFACE CONDITION	RECOMMENDED PRIMER
Concrete conforming to the standard	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER HB, FOX PURATHANE® PRIMER 1K
Moist substrates (with Humidity Barrier)	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF
Highly porous substrates	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER SL
Highly porous moist substrates	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF
Steel, galvanized steel and aluminum surfaces	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER WA, FOX PURATHANE® PRIMER 1K
Wooden boards and some special surfaces	FOX EPOTHANE® PRIMER, FOX PURATHANE® PRIMER 1K
Asphalt and Bitumen membrane surfaces	FOX EPOTHANE® PRIMER SL, FOX EPOTHANE® PRIMER HBF, FOX PURATHANE® PRIMER 1K
Reapplication on application (Old New)	FOX EPOTHANE® PRIMER WA, FOX PURATHANE® PRIMER 1K
For non-porous concrete and non-absorbent surfaces	FOX EPOTHANE® PRIMER SL, FOX EPOTHANE® PRIMER HBF, FOX PURATHANE® PRIMER 1K
For ceramic, marble, granite and glossy surfaces	FOX EPOTHANE® PRIMER WA

The above values are theoretical and do not include the need for additional material due to surface porosity, profile, leveling differences and loss.

Application Procedure

Preparation of Substrate

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 mold release agents, cement residues, chips, loose particles and contaminated membranes. Weak concrete pieces should be removed from the surface, cracks, if any, should be made more open. The resulting dust should be cleaned with the help of industrial vacuum cleaner. For surface repairs, filling gaps and smoothing the surface, 60-70 AFS (0,1-0,3mm) silica sand should be mixed with **FOX EPOTHANE® PRIMER** at the desired rate, depending on the condition of the area to be repaired. If the **FOX PURATHANE® TOPCOAT**, **FOX CARPARK® SYSTEM** application is used as the top coat, there is no need for priming in the applications over the sprinkled sand 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.
- According to ASTM, there should be no rising humidity.
- 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 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 UV** contains color, 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 continuously for 3-4 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

FOX PURATHANE® TOPCOAT UV should be applied to the surface with the help of a roller. Care must be taken to ensure that successive layers are wet in order to minimize roll marks. The application should be done along the short side and each new application should be made right next to the previous one. The material should be passed over the material again with a second roller to ensure that the material is homogeneously distributed and that there is no trace of the roller. Application between coats should be done after 3 hours depending on the ambient temperature. In order to get the ideal performance from the product, minimum 2 coats should be applied.

Cleaning of Tools

Tools and equipment used after the application should be cleaned with solvent or polyurethane thinner. **FOX PURATHANE® TOPCOAT UV** can only be removed from the surface by mechanical methods after it has hardened.

Consumption

~600-800 gr/m² for one layer.

Watch Points

- Ambient and 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 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 applicability of the products.
- Rain, dust, wind, animals and insects should be prevented from coming onto the coating when it 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, cover 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.
- Consumptions are given for ideal conditions where the ambient and surface temperature is 20°C. Actual consumption may vary depending on the surface structure and ambient temperature. It should not be forgotten that consumption 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

20 kg Set

A Component; 14,0 kg tin

B Component; 6,0 kg tin

Shelf Life

Shelf life is 6 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 storage and application areas with fire. Storage and application areas should be ventilated.

During the application, work clothes, protective gloves, glasses and masks in accordance with the occupational and worker health rules should be used. During storage and application, it should not be contacted with the skin and eyes, in case of contact, it should be washed with plenty of water and soap, and if swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into the application areas. It should be stored out of the reach of children.

For detailed information, the Material Safety Data Sheet should be consulted.



Disclaimer

The data contained in this technical document is based on our scientific and practical knowledge. SARTECH Yapi Malzemeleri San. ve Tic. Ltd. Sti. only responsible for the quality of the product. SARTECH Yapi Malzemeleri San. ve Tic. Ltd. Sti. cannot be held responsible. The responsibility for the correct application of our product lies with the user. Our company is only responsible for the quality of the product. This catalog overrides the information in the previous catalogue. Our company reserves the right to make changes in any information and content details in this catalogue. It is essential to check that the information in the catalog is up-to-date and valid. All rights reserved.

