INNO-FLOOR

FOX PURATHANE® BASECOAT 1K

Polyurethane Based, One Component, Thin Coating

Description

PURATHANE® BASECOAT 1K, is modified polyurethane based, one component, high abrasion resistant, coating material.

Fields of Application

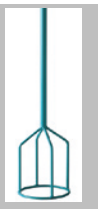
- Areas exposed to medium/light traffic loads,
- Depots,
- Production areas,
- Aircraft hangars,
- Car parks,
- Garages,
- Airports,
- Shopping malls,
- Super markets,
- Hotels,
- Hospitals and nursery homes,
- Hygiene desired areas,

Advantages

- It provides excellent adherence.
- It has excellent chemical resistance.
- It has excellent abrasion resistance.
- It has good mechanical strength.
- Flexible.
- Economic.
- Easy to apply.
- Can be applied over asphalt.
- It has high splice strength.
- Easy to maintain and clean.
- It provides hygienic environments.
- Dirt-proof.
- Easy to sterilize.
- It has a surface structure that does not allow microbe formation.
- Fluid.
- Liquid impermeable.
- Hydrophobic (water repellent) feature.

Technical Features

Density		1,35 gr/cm³
Colour		Ral Colours
Working Time		60 minutes
Solids by %		%79
Dilution		No dilution
Pendulum Hardness	DIN 53157	165s
Taber Abrasion Test	1 kg.CS 10,1000 d.	~85 mg



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

Physical Features

Temperature	+10°C	+20°C	+30°C
Working Time	80 minutes	60 minutes	40 minutes
Pedestrian Traffic	10 hours	8 hours	6 hours
Light Traffic	3 days	2 days	1 day
Fully Cures	7 days	5 days	3 days

The above values are theoretical. It 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

Application Conditions

- 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 ground temperature must be above +3°C above the dew point.

Substrate Preparation

The surface should be cleaned using pressurized water if possible, oil, grease, fuel and paraffin waste should be removed, and mould release agents should be completely free of cement residues, chips, loose particles and contaminated membranes. For the surface repairs, filling the voids and smoothing the surface, the ground should be prepared by mixing 60-70 AFS (0,1-0,3 mm) quartz sand and **FOX EPOTHANE® PRIMER** series primer.

Watch Points in Application

Surface Temperature ; Minimum +8°C - Maximum +30°C
Ambient Temperature ; Minimum +8°C - Maximum +30°C
Material Temperature ; Minimum +15°C - Maximum +25°C

Mixing

Before starting the mixture, make sure that the product temperatures are between +15°C and +25°C. **FOX PURATHANE® BASECOAT 1K** contains colour pigment and filling. Stir the product for 3-4 minutes with an electric mixer and a suitable mixing tip until a homogeneous colour is obtained and it is ensured that there is no product on the bottom and sides of the container. Avoid over mixing to minimize air entrainment.
Mixing tools: (300-400 rpm) electric mixer and epoxy / polyurethane resin mixing tip

Application

Primer

Surfaces to be made with **FOX PURATHANE® BASECOAT 1K** must be previously primed with **FOX EPOTHANE®** series primer. Attention should be paid to the floor temperature (min +8°C). **FOX PURATHANE® BASECOAT 1K** should be applied on the primer within the application period.

Topcoat

FOX PURATHANE® BASECOAT 1K should be applied on the surface with a roller or steel trowel. 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.

Cleaning of the Tools

After the application, the tools and equipment used can be cleaned with solvent. **FOX PURATHANE® BASECOAT 1K** can only be removed from the surface by mechanical methods after hardening.

Coverage

200 gr/m^2 - for 2 layers

Watch Points

- Concrete surfaces to be coated with epoxy / polyurethane must be at least 3 weeks old before application, forming a vapour barrier layer on the floors that sit on the ground, and the roof, walls, doors and windows of the building have been made, the ambient and surface temperature must be at least +10°C and +30°C.
- The materials to be used must be brought to the application site 1-2 days prior and must adapt to the ambient conditions.
- In applications to be carried out in cold weather, the ambient and ground temperature should be increased, and the packaging should be prepared at +20°C - 25°C and ready for use in order to increase the processability of the products.
- Rain, dust, wind, animals and pests 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 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

5 kg tin bucket

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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