INNO-FLOOR

FOX PURATHANE® BASECOAT CP

Polyurethane Based, Two Component, Solvent-Free, Self Levelling, Industrial Coating

Description

FOX PURATHANE® BASECOAT CP, it is a polyurethane-based, two-component, solvent-free, self-leveling, hard but flexible floor covering material designed especially for car parks and industrial floors.

Usage Areas

- In areas subject to heavy/medium traffic load,
- In car parks (especially multi-story car parks),
- On wooden floors and refrigerated case coatings (especially preferred due to its flexible product structure),
- In warehouses,
- In production areas,
- In aircraft hangars,
- In garages,
- At airports,
- It is used in areas where the floor is expected to be flexible to a certain degree.

Advantages

- Provides excellent adherence.
- It has excellent chemical resistance.
- It has excellent mechanical strength.
- It is flexible, resistant to abrasion.
- It has the ability to cover cracks (1-3 mm).
- It can be applied on asphalt.
- It has high adhesion strength.
- It can be painted with **FOX PURATHANE® TOPCOAT** series topcoat products.
- It is fluid.
- It is liquid impermeable.
- Does not contain volatile organic matter (VOC-solvent).
- Seamless finishing (excluding existing structural joints).

Technical Data

Density		1,45±0,05 gr/cm^3
Color		Ral Colors
Breaking Strength		20 N/mm^2
Flexural Tensile Strength		60 N/mm
Adhesion Strength by Breaking Off Concrete		>3,75 N/mm^2
Elongation at Break		%80
Total Solid Material Percentage		%100
Dilatation		None
Shore D Toughness	A+B Component	70
Working Time		40 minutes
Suggested Thickness		1-1,5 mm

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	40-55 min.	25-35 min.	20-25 min.
Application Time for Topcoat	Min. 24 - Max. 48 hour	Min. 16 - Max. 48 hour	Min. 12 - Max. 48 hour
Pedestrian Traffic	24 hours	16 hours	10 hours
Light Traffic	3 days	2 days	1 days
Full Time Curing	10 days	7 days	7 days

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

System Details and Coverage

System Details			Product	Coverage
Primer	Smooth Surface		FOX EPOTHANE® series (Check the primer selection table.)	100-200 gr/m²
	Surface roughness <1 mm		1 unit FOX EPOTHANE® series+ 0,5-unit Silica sand 60-70 AFS (0,1-0,3 mm) for weight	200-500 gr/m²
				100-250 gr/m²
	Surface roughness up to 2 mm		1 unit FOX EPOTHANE® series + 1 unit Silica sand 60-70 AFS (0,1-0,3 mm) for weight	200-500 gr/m²
				200-500 gr/m²
Coating System	Self-Leveling System Coating	Coating	1 layer FOX PURATHANE® BASECOAT CP	~1,54 kg/m²/mm
		Topcoat (if required)	2-layer FOX PURATHANE® TOPCOAT WB or FOX ASPARTHANE® TOPCOAT	150-250 gr/m²
	Car Park Anti-Slip System Coating	Spread	Silica sand 40-45 AFS (0,2-0,5 mm)	1-2 kg/m²
		Coating	1 layer FOX PURATHANE® BASECOAT CP	1,3-1,6 kg/m²
		Spread	Silica sand 40-45 AFS (0,2-0,5 mm) or Silica sand 15-25 Afs (0,7-1,2 mm)	3-4 kg/m²
		Topcoat	FOX ASPARTHANE® TOPCOAT/ FOX PURATHANE® TOPCOAT UV	400-800 gr/m²

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

Primer Selection Table

SURFACE CONDITION	SUGGESTED PRIMER
Concrete conforming to the standard	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER HB, FOX PURATHANE® PRIMER 1K
Moist substrates	FOX EPOTHANE® PRIMER WB
Moist substrates (with Moisture 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 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 PURMAX® PRIMER 1K RAPID, 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 PURMAX® PRIMER 1K RAPID, FOX PURATHANE® PRIMER 1K
Ceramic, marble, granite and gloss 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.

Surface Quality

Concrete substrates on which the application will be made must be strong and have sufficient compressive strength (minimum 25 N/mm²), tensile strength at least 1,5 N/mm², humidity maximum 4%, floor temperature minimum +8°C. In addition, care should be taken to ensure that the dew point of the floor is above +3°C. The substrate must be clean, dry and free of any foreign matter such as dirt, oil, grease, coating and surface curing materials.

Application Procedure

Surface Preparation

The concrete substrates on which the application will be made should be prepared using abrasive equipment (Shot Blasting, milling, diamond grinding) to remove the cement laitance 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 industrial vacuum cleaner. Sub-surface repairs should be made with the mortar obtained by mixing 60-70 AFS (0,1-0,3 mm) quartz sand and **FOX EPOTHANE® PRIMER** series primer for filling the gaps and smoothing the surface.

Application Conditions

- Surface moisture content should be below 4%.
- Test method: CM- measurement or oven drying method.
- According to ASTM, there should be no rising humidity. (Polyethylene cover test).
- 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.

Watch Points

Surface Temperature	; Minimum +10°C- Maximum +30°C
Environmental Temperature	; Minimum +10°C- Maximum +30°C
Temperature of Material	; Minimum +10°C- Maximum +30°C

Mixing

Before starting the mixture, make sure that the product temperatures are between +15°C and +25°C. A component **FOX PURATHANE® BASECOAT CP** contains 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 for 3-4 minutes until you get a homogeneous mixture. Avoid over-mixing to minimize air entrainment. Mixing tools: (300-400 rpm) an electric mixer and epoxy/polyurethane resin mixing tip.

Application

Primer

The surfaces on which **FOX PURATHANE® BASECOAT CP** will be made must be primed with **FOX EPOTHANE®** series primer beforehand. The ground temperature (min +10°C) must be paid attention to. **FOX PURATHANE® BASECOAT CP** should be applied on the primer within the application period.

Carpark Coating or Non-Slip Coating

FOX PURATHANE® BASECOAT CP is poured onto the surface and applied evenly with a notched trowel. When the coating reaches the appropriate consistency, a spiked roller should be applied and its air should be removed. Hedgehog roller traces may remain on the surface in case of late application of the spiked roller. When the coating has a suitable consistency according to the ambient conditions, 40-45 Afs (0,2-0,5 mm) silica sand is sprinkled on it to completely cover the surface. In cases where a rougher surface is desired, 15-25 Afs (0,7-1,2 mm) silica sand can be used instead of 40-45 Afs silica sand in the same way. One day after the application, the excess of sand is removed with the help of industrial vacuum cleaner. Sands that are not adhered to the surface are stripped from the surface by scraping. Afterwards, **FOX ASPARTHANE® TOPCOAT** or **FOX PURATHANE® TOPCOAT UV** products are applied with the help of a roller or airless spraying machine as a topcoat.

As Self Leveling Wood Flooring or Refrigerated Crate Covering

FOX PURATHANE® BASECOAT CP is poured onto the surface and applied evenly with a notched trowel. When the coating reaches the appropriate consistency, a spiked roller should be applied and its air should be removed. Hedgehog roller traces may remain on the surface in case of late application of the spiked roller.

Cleaning of Application Tools

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

Watch Points

- The concrete surfaces to be coated with epoxy/polyurethane should be at least 3 weeks old before the application, a vapor barrier layer should be formed on the floors resting on the earth ground, and the roof, walls, doors and windows of the building should be made, and the ambient and surface temperature should be minimum +10°C and maximum +30°C. It should be around.
- 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 workability of the products.
- Rain, dust, wind, animals and insects should be prevented from entering the building when the coating 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.
- Coverages 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

30 kg Set
A Component; 25 kg tin bucket
B Component; 5 kg tin bucket

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, away from direct sunlight and protected from frost. In short-term storage, maximum 2 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 rules of work and worker health 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.

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