

# INNO-FLOOR FOX PURATHANE® TOPCOAT WB

## Polyurethane Based, Two Component, Water Based, Finishing Material

### Definition

**FOX PURATHANE® TOPCOAT WB** is a Modified Polyurethane-based, two-component, water-based, UV resistant, high abrasion resistant topcoat material containing aliphatic isocyanate.

### Fields of Application

- As topcoat on **FOX EPOTHANE®** and **PURATHANE®** series floor systems,
- As coating on walls and ceilings,
- As a final coat on old Epoxy and Polyurethane coating,
- As a final coat coating on old ceramics, marble, granite,
- In warehouses,
- In production areas,
- In aircraft hangars,
- In parking lots,
- In garages,
- At airports,
- In shopping malls,
- In supermarkets,
- In Stores and Showrooms,
- In congress and exhibition halls,
- In hotels,
- In hospitals and nursing homes,
- In clinics,
- In schools, nurseries,
- In libraries,
- In offices,
- In the Chemical and Pharmaceutical industry,
- In laboratories,
- In areas where hygiene is required,

### Advantages

- It is UV resistant.
- Provides perfect adherence.
- It has excellent wear resistance.
- It is economical.
- Easy to apply.
- It has high adhesion strength.
- Glossy / Matte finish coating is obtained.
- It is easy to maintain and clean.
- Provides hygienic environments.
- Does not retain dirt.
- It has a surface structure that does not allow microbe formation.
- It is liquid impermeable.
- It has hydrophobic (water repellent) properties.
- It does not contain volatile organic matter (VOC-solvent).



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### SARTECH YAPI MALZEMELERİ SANAYİ VE TİCARET LTD. ŞTİ.

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## Technical Specifications

Density	Transparent Glossy	1,05±0,05 gr/cm <sup>3</sup>
	Transparent Matte	1,10±0,05 gr/cm <sup>3</sup>
	Colored Glossy	1,30±0,05 gr/cm <sup>3</sup>
	Colored Matte	1,30±0,05 gr/cm <sup>3</sup>
Color	Transparent, Glossy/Matte in Ral Colors	
Application time	40-45 dakika	
Percentage of Total Solids	%40-50	
Dilution	Not diluted	
Water Vapor Permeability	16000 µ	
Pendulum Hardness	König ISO 1522	86s
Taber Abrasion Test	1 kg.CS 10,1000 d.	~40 mg
Darbe Testi	Drop height	0,5 / 1mt 5



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

## Physical properties

Temperature	+10°C	+20°C	+30°C
Application time	~80 min.	~40 min.	~25 min.
Pedestrian Traffic	10 hour	8 hour	6 hour
Light Traffic	3 day	2 day	1 day
Complete Curing	7 day	5 day	3 day

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

## Primer Selection Chart

SURFACE CONDITION	ÖNERİLEN ASTAR
Concrete conforming to standard	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER HB, FOX PURMAX® PRIMER 1K RAPID
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 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 applied surface (Old-New)	FOX EPOTHANE® PRIMER WA, FOX PURMAX® PRIMER 1K RAPID
On non-porous concrete and non-absorbent surfaces	FOX EPOTHANE® PRIMER SL, FOX EPOTHANE® PRIMER HBF, FOX PURMAX® PRIMER 1K RAPID, FOX PURMAX® PRIMER 1K
For ceramic, marble, granite and shiny surfaces	FOX EPOTHANE® PRIMER WA

## Chemical Resistance

Super Gasoline (7 days)	+	Olive Oil	+	Ethanol (1 hour)	+
Beer	+	Paraffin	+	Ammonia	+
milk	+	Castor Oil	+	Acetic acid	+
Sodium Chloride 3-30%	+	Water (9 days)	+	Mineral Oil	+
Red wine	+	Shoe Polish	+	Acetone (1 hour)	+
Xylene	+	Skydrol	+	isopropanol	+

Color change may occur due to the effects of chemicals. This research was conducted at room temperature. High temperatures and/or mixtures of chemicals can affect chemical durability.

## Application Procedure

### Surface preparation

The surface should be cleaned using pressurized water, if possible, and oil, grease, fuel and paraffin waste should be removed, and it should also be completely free of mold release agents, cement residues, shavings, loose particles and contaminated membranes. For sub-surface repairs, filling the gaps and smoothing the surface, the ground should be prepared with the mortar obtained by mixing 60-70 AFS (0.1-0.3 mm) quartz sand with **FOX EPOTHANE® PRIMER** series primer.



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## Application Conditions

- Relative air humidity should be 80% maximum.
- Be careful of dew and condensation!
- Condensation and condensation of water vapor on an unapplied or newly coated surface will damage the coating. To prevent this, the ground temperature must be above +10°C.

## Points to be taken into consideration in application

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

## Mixing

Before starting the mixing, make sure that the product temperatures are between +20°C and +25°C. A component **FOX PURATHANE® TOPCOAT WB** contains colour, pigment and filler. Mix the A component product thoroughly using an electric mixer and a suitable mixing tip until a homogeneous color is obtained and you make sure that there is no product left on the bottom or edges of the container. After completely adding the B component product into the A component product, mix continuously for 3-4 minutes until you obtain a homogeneous mixture. Avoid overmixing to minimize air entrainment.

**Mixing tools:** (300rpm-400rpm) an electric stirrer and epoxy/polyurethane resin mixing tip.

## Application

### Priming

The surfaces on which **FOX PURATHANE® TOPCOAT WB** will be applied must be previously primed with **FOX EPOTHANE®** series primer. Attention must be paid to the ground temperature (min. +10°C). **FOX PURATHANE® TOPCOAT WB** should be applied on the primer within the application period.

### Topcoat Coating

**FOX PURATHANE® TOPCOAT WB** should be applied to the surface using a streak-free, short-pile, velvet roller. In order to minimize roll marks, care must be taken to ensure that successive layers are wet. Application should be made along the short edge and each new application should be made right next to the previous one. The material should be passed over again with a second roller to ensure that the material is distributed homogeneously and that no roller marks remain.

### Cleaning Application Tools

After application, the tools and equipment used can be cleaned with water. After **FOX PURATHANE® TOPCOAT WB** hardens, it can only be cleaned from the surface by mechanical methods.

### Consumption

~100-200 gr/m<sup>2</sup> in two coats.

### Matters to be taken into consideration

- Concrete surfaces to be coated with epoxy/polyurethane should be at least 3 weeks old before application, a vapor barrier layer should be created on floors sitting on soil ground, and the roof, walls, doors and windows of the building should be made, the ambient and surface temperature should be at least +10°C and at most +30°C.
- 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 kept at +20°C - 25°C to make them ready for use in order to increase the processability of the products.
- 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, ground temperature and humidity in the air. Curing slows down at low temperatures, which extends pot life, coating time and working time. Curing accelerates at high temperatures, which shortens pot life, coating time and working time. In order for the product to fully cure, the ambient and ground temperature must not be lowered below the given minimum temperature levels. After completion of the application, the coating should be protected from direct water contact for at least 24 hours. If there is water contact, the coating will soften and swell, which will cause the coating to lose its properties. Therefore, the coating must be completely removed and rebuilt.
- The consumptions specified in the system technical documentation are given at +23°C and 50% relative humidity. Actual consumptions may vary depending on surface structure and ambient temperature. It should not be forgotten that consumption will increase on damaged 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 dragged into the product, which will cause air bubbles to form on the coating after application.



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## Packaging

5 kg Set

Transparent Glossy	A Component; 4,07 kg bucket B Component; 0,93 kg bucket
Transparent Matte	A Component; 4,24 kg bucket B Component; 0,76 kg bucket
Transparent Semi Matte	A Component; 4,07 kg bucket B Component; 0,93 kg bucket
Colored Glossy	A Component; 4,20 kg bucket B Component; 0,80 kg bucket
Colored Matte	A Component; 4,38 kg bucket B Component; 0,62 kg bucket

## Shelf life

When stored correctly at room temperature, between +5°C and +30°C, away from direct sunlight, the shelf life is 6 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, a maximum of 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.

## Security precautions

It is dangerous to approach storage and application areas with fire. Storage and application areas should be ventilated. During application, work clothes, protective gloves, glasses and masks in accordance with occupational and worker health rules should be used. It should not be contacted with skin or eyes during storage and application. In case of contact, it should be washed immediately with plenty of water and soap. If swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into application areas. It should be stored in places inaccessible to 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. SARTECH Yapı Malz. San. ve Tic. Ltd. Şti. 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.

