

INNO-FLOOR FOX EPOTHANE® BASECOAT

Epoxy Based, Solvent-Free, Self-leveling Coating Material

Definition

FOX EPOTHANE® BASECOAT, Epoxy resin based, two-component, high chemical resistance, solvent-free, self-leveling, colored industrial floor coating

Application Fields

- In areas subject to heavy/medium/light traffic load,
- In areas requiring chemical and mechanical resistance,
- In warehouses,
- In production areas,
- In aircraft hangars,
- In parking lots,
- In garages,
- At airports,
- In galleries,
- In shopping malls,
- In supermarkets,
- In Stores and Showrooms,
- In engine rooms,
- In hotels,
- In hospitals and nursing homes,
- In clinics,
- In schools, nurseries,
- In the Chemical and Pharmaceutical industry,
- In laboratories,
- It is used in areas where hygiene is required.

Advantages

- Easy to apply.
- A high amount of filler can be entered.
- High chemical and mechanical resistance.
- High abrasion resistance.
- Easy to maintain and clean.
- Fluid.
- Provides hygienic environments.
- It has a structure that does not allow microbe formation.
- Liquid impermeable.
- A glossy topcoat coating is obtained.
- High adhesion strength.
- It does not contain volatile organic matter (VOC-solvent).

Technical Specifications

Density		1,60±0,05 gr/cm ³
Color		In Ral Colors
Compressive Strength	7 days	≥65 N/mm ²
Tensile Strength in Bending	7 days	≥30 N/mm ²
Adhesion Strength	to concrete	≥1,5 N/mm ²
Percentage of Total Solids		%100
Applicable Ground Temperature		+10°C /+30°C
Thinning		Not diluted
Shore D Hardness	7 days	≥85
Abrasion Resistance	Taber CS10/1kg/1000dv.	70 mg
Operation time		30-35 min
Recommended Thickness		1,0 mm-3,0 mm

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



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Physical Properties

Temperature	+10°C	+20°C	+30°C
Relative Humidity	%60	%60	%60
New Coat Application Time	Min. 26 - Max. 32 hours	Min. 18 - Max. 24 hour	Min. 12 - Max. 16 hours
Pedestrian Traffic	30 hours	26 hours	18 hours
Light Traffic	4 days	3 days	2 days
Complete Curing	10 days	7 days	7 days

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

Chemical Resistance

Sugar Water	+	Xylene	+	Leaded Gasoline	+	styrene	±
30% Salt Water	+	Butyl Glycol	-	Sulfuric Acid (30%)	-	Glycerine	+
Tea	+	Propylene glycol	±	Toluene	+	Olive oil	±
Coffee	+	10% KOH	-	Oil	±	Silicone Oil	±
ketchup	±	ethanol	±	Deionized Water	±	Wine	±
Mayonnaise	±	Butanol	-	Beer	±	Javel Juice	±
Vinegar	±	Benzyl Alcohol	±	Nitric acid	-	Methyl Iso Butyl Ketone	-
Lemon juice	±	Ethyl Acetate	±	Gasoline	±	Diesel Oil	±
Mineral water	±	Suma	±	10% NaOH	-	Caustic soda	+
Fruit juice	+	Amyl Alcohols	±	Castor oil	±	Turpentine	±
Carbonated beverage	+	Methanol	±	Soap	+	Paraffin	±
HCL (%30)	-	propanol	±	cyclohexane	±	perchlorethylene	-

This research was conducted at room temperature. High temperatures and/or mixtures of chemicals can affect chemical durability. Color change may occur due to the effects of chemicals. If the surface is exposed to chemicals, it should be cleaned within 1 hour at most. (+) It is recommended to use. The use of (+) is conditionally recommended. (-) Should not be used.

Primer Selection Chart

SURFACE CONDITION	RECOMMENDED PRIMER
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, 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

Surface Quality

The concrete substrates to be applied must be solid and have sufficient compressive strength (at least 25 N/mm²), tensile strength must be at least 1.5 N/mm², humidity rate must be maximum 4%, and ground temperature must be minimum +10°C. Additionally, care should be taken to ensure that the ground temperature is +3°C above the dew point. The subsurface must be clean, dry and free of any foreign substances such as dirt, oil, grease, coating and surface curing materials.



Application Procedure

Surface preparation

The concrete substrates to be applied should be prepared by using abrasive equipment (such as Shot Blasting, milling, diamond polishing) to remove the cement laitance and obtain an open-pore surface. Weak concrete pieces should be removed from the surface and small gaps and holes should be made completely open. The resulting dust should be cleaned with the help of an industrial vacuum cleaner. For sub-surface repairs, filling the gaps and leveling the surface, the ground should be prepared by using a mortar obtained by mixing 60-70 AFS (0.1-0.3 mm) quartz sand with **FOX EPOTHANE® PRIMER** series primer.

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 moisture. (Polyethylene cover test).
- Relative air humidity should be 80% maximum.
- Be careful of dew and condensation!
- Condensation and condensation of water vapor on unapplied or newly coated surfaces will damage the coating. To prevent this, the ground temperature must be +3°C above the dew point.

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 EPOTHANE® BASECOAT** contains 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 for at least 3 minutes until you obtain a homogeneous mixture. After components A and B are mixed, add the required amount of 60-70 Afs (0.1-0.3 mm) silica sand according to the system to be applied and mix for another 2 minutes until you obtain a homogeneous mixture. Avoid overmixing to minimize air entrainment. Mixing tools: (300-400 rpm) an electric mixer and epoxy/polyurethane resin mixing tip.

Application

Priming

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

Coating

FOX EPOTHANE® BASECOAT is poured onto the surface and applied evenly with a comb trowel. When the coating reaches the appropriate consistency, a puffer roller should be applied to remove air. If the application of the hedgehog roller is delayed, traces of the hedgehog roller may remain on the surface. If the floor surface is homogeneous and void-free, there is no need to apply a hedgehog roller.

Cleaning Application Tools

After application, the tools and equipment used should be cleaned with solvent or epoxy thinner. After **FOX EPOTHANE® BASECOAT** hardens, it can only be cleaned from the surface by mechanical methods.



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.

Packaging

30 kg set

A component; 24,9 kg / tin

B component; 5,1 kg / tin

Shelf life

When stored correctly at room temperature, between +5°C and +30°C, away from direct sunlight, the shelf life is 12 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.



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