

INNO-FLOOR**FOX STONECARPET® BINDER PU****Polyurethane-Based, Two-Component, UV-Resistant, Natural Aggregate Binder****Description**

FOX STONECARPET® BINDER PU is polyurethane based, two components, aliphatic, that does not yellow due to UV and sun rays, binder for specially selected crushed and drummed natural coloured aggregates.

Fields of Application

- Interiors and exteriors,
- On horizontal surfaces
- As a binder in **FOX STONECARPET®** and **FOX PEBBLEDECK** systems,
- Airports,
- Hospital,
- Galleries,
- Shopping malls,
- Supermarkets,
- Magazines and showrooms,
- Hotels.

Advantages

- Can be used in interiors and exteriors.
- It gives an aesthetic appearance to the surface.
- Long service life.
- UV resistant.
- Different perceptions can be created with aggregates used in different sizes.

Technical Features

Color		Transparent
Density		1,04±0,05 gr/cm ³
Flexural Strength	EN 12190	≥3 N/mm ²
Compressive Strength	EN 12190	≥7,5 N/mm ²
Working Time		~45 minutes
Pot Life		~45 minutes
Slip Resistance	DIN 51130	R10
Foot Traffic Time		1 day
Full Drying Time		24 hours
Time to Mechanical Resistance		1 day
Full Cure Time		7 days
Application Substrate Temperature		+10°C/+30°C



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

Surface Quality

Concrete substrates to be applied must have a strong and sufficient compressive strength (at least 25 N/mm²), tensile strength at least 1.5 N/mm², humidity should be maximum 4%, ground temperature minimum +10°C. In addition, it should be noted that the dew point of the ground is above +3°C. The substrate must be clean, dry and free from all kinds of dirt, oil, grease, coating and surface curing materials etc.

Application Procedure**Substrate Preparation**

Concrete substrates to be applied should be prepared in a way to remove an open porous surface by removing cement grout using abrasive equipment (Shot Blasting, milling, diamond polishing etc.). Weak concrete pieces should be removed from the surface, small gaps, holes should be made completely open. The resulting dust should be cleaned with the help of an industrial vacuum cleaner. Sub-surface repairs, filling the gaps and levelling the surface should be done with **FOX MORTAR FC188 T** repair mortar.



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Application Conditions

- Surface moisture content should be below 4%.
- Test method: CM - measurement or drying in an oven.
- There should be no rising humidity according to ASTM. (Polyethylene cover test).
- Relative air humidity should be maximum 80%.
- 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 floor temperature should be above +3°C.

Watch Points in Application

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

Mixing

Before starting the mixture, make sure that the product temperatures are between +10°C and +30°C. Mix A component **FOX STONECARPET® BINDER PU** with suitable mixer for 1 minute without dragging air. Then pour component B onto component A. Stir continuously for 2 minutes until you have a homogeneous mixture. After mixing A and B components, add the aggregates selected as desire. Mix for another 2-3 minutes until you get a homogeneous mixture. Avoid over mixing to minimize air entrainment.

Mixing Tools: (300 - 400 rpm) electric mixer and epoxy/polyurethane resin mixing tip

Application

Primer

Surfaces where **FOX STONECARPET® BINDER PU** application will be applied must be previously primed with **EPOTHANE®** series primer. Attention should be paid to the floor temperature (min +10°C). **FOX STONECARPET® BINDER PU** should be applied on the primer within the application period.

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

Trowel Application

The prepared mixture is poured onto the surface and spread to the desired thickness using a suitable trowel or screed.

Power Trowel Application

The prepared mixture is poured onto the surface. To obtain a continuous and smooth finish, when the surface reaches a consistency capable of bearing the weight of the power trowel or when the footprint depth is approximately 0.5 cm, finishing is carried out using a power trowel with a pan attachment.

Cleaning of Application Tools

After application, all used tools and equipment must be cleaned with solvents such as **FOX CS810** or **FOX C380**. Once the **FOX STONECARPET® BINDER PU** mixture has hardened, it can only be removed from the surface by mechanical methods.

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.



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- 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.

Consumption

1 kg binder for 12.5 kg aggregate

Consumption values are valid for 1–3 mm and 2–4 mm aggregates. For different aggregate sizes, please consult our technical team for consumption details.

Package

8 kg set;

A component 4 kg tin

B component 4 kg tin

Shelf Life and Storage

The product must be stored in its unopened original packaging in a dry and cool environment (+5°C to +30°C), protected from direct sunlight and frost. If the specified storage conditions are observed, the shelf life is 12 months from the date of production. Opened packaging must be tightly closed and consumed within 1 week. Pallets must never be stacked on top of each other during storage. Shipment must be carried out according to the FIFO principle (First In – First Out).

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.

Liability

The information provided in this Technical Data Sheet is based on our scientific and practical experience. Fox Bau Yapı Kimyasalları A.Ş. is solely responsible for the quality of the product. The company cannot be held liable for any consequences arising from uses other than those recommended in writing and/or from incorrect application of the product. For detailed information, please refer to the Safety Data Sheet (SDS) and the Technical Data Sheet (TDS), or contact our company representatives.



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