

# INNO-DECO FOX STONECARPET® BINDER PU 1K

## Polyurethane Based One Component, UV Resistant, Solvent Free Natural Stone Binder Material

### Description

**FOX STONECARPET® BINDER PU 1K** is a polyurethane-based, one-component, aliphatic, non-yellowing due to UV and sunlight, binder of specially selected crushed and tumbled natural-colored aggregates.

### Fields of Application

- Indoors and outdoors,
- Horizontal surfaces,
- As a binder in **FOX STONECARPET®** system,
- At airports,
- In hospitals,
- In the galleries,
- In shopping centers,
- In stores and showrooms,
- Used in hotels.

### Advantages

- Can be used indoors and outdoors.
- Ready to use.
- UV resistant, does not yellow.
- Solvent free.
- Gives aesthetic appearance to the surface.
- Long lasting.
- It can create different perceptions with aggregates used in different sizes.

### Technical Properties

Color	Transparent
Density	1,15±0,05 gr/cm <sup>3</sup>
Working Time	60 min
Pot Life	60 min
Pedestrian Traffic Opening Time	6 hours
Full Drying Time	24 hours
Mechanical Resistance Time	1 day
Full Curing Time	7 days
Floor Temperature	+5°C /+30°C

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



### Surface Quality

Concrete substrates to be applied must be solid and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), tensile strength must be at least 1.5 N/mm<sup>2</sup>, humidity must be maximum 4%, ground temperature must be minimum +8°C. It should also be ensured that the dew point of the ground is above +3°C. The substrate must be clean, dry and free from foreign materials such as dirt, oil, grease, coating and surface curing materials etc.

### Application Procedure

#### Substrate Preparation

Concrete sub-surfaces to be applied should be prepared by using abrasive equipment (Shot Blasting, milling cutter, diamond polishing etc.) to remove the cement grout 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 an industrial vacuum cleaner. Sub-surface repairs, filling the gaps and leveling the surface should be done with **FOX MORTAR FC188 T** repair mortar.



### Application Conditions

- Surface moisture content should be below 4%.
- Test method: CM-measurement or oven drying method.
- There shall be no rising humidity according to ASTM (Polyethylene cover test).
- Relative air humidity should be 80% maximum.
- Beware of dew and condensation!
- Dewing and condensation of water vapor on untreated or newly coated floors will damage the coating. To prevent this, the floor temperature must be above +3°C.

### Watch Points

Surface Temperature	; Minimum +5°C - Maximum +30°C
Ambient Temperature	; Minimum +5°C - Maximum +30°C
Material Temperature	; Minimum +5°C - Maximum +30°C

### Mixing

Mix the aggregate and **FOX STONECARPET® BINDER PU 1K** with a suitable mixer for about 3-4 minutes until a homogeneous mixture is obtained. Avoid over mixing to minimize air entrainment.

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

### Priming

**FOX STONECARPET® BINDER PU 1K** application surfaces must be previously primed with **FOX EPOTHANE® PRIMER WB/FOX EPOTHANE PRIMER WB COLORED/FOX EPOTHANE PRIMER HB**.

### Application

Pour the prepared mixture onto the surface and spread it to the desired thickness with a suitable trowel or gauge to obtain a smooth surface.

### Cleaning of Tools

Tools and equipment used after application should be cleaned with solvents such as **FOX CS810, FOX C380**. **FOX STONECARPET® BINDER PU 1K** mixture can only be cleaned from the surface by mechanical methods after hardening.

### Watch Points

- The concrete surfaces to be coated with epoxy/polyurethane must be at least 3 weeks old before application, a vapor barrier layer must be formed on the slabs sitting on the ground, the roof, walls, doors and windows of the building must be made, and the ambient and surface temperature must be at least +10°C and maximum +30°C.
- The materials to be used must be brought to the application site 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 kept at +20°C-25°C to increase the workability of the products and made ready for use.
- 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, floor temperature and humidity in the air. At low temperatures, curing slows down, which extends the pot life, the time it can be covered and the working time. At high temperatures, curing accelerates, which shortens container life, coating time and working time. In order for the product to cure completely, the ambient and floor temperature should not be lowered below the minimum temperature levels given. After completion of the application, the coating should be protected from direct water contact for at least 24 hours. If water contact occurs, softening and blistering will occur on the coating, which will cause the coating to lose its properties. For this reason, the coating must be completely removed and redone.
- Consumptions are given for ideal conditions where ambient and surface temperature is 20°C. Actual consumption may vary depending on surface structure and ambient temperature. It should be kept in mind that consumption will increase in case of defective 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 entrained into the product, which will cause the formation of air bubbles on the coating after application.

### Consumption

0,75 kg binder for 15 kg aggregate

Consumption is for 1-3 mm and 2-4 mm aggregate. Please consult our technical team for consumption information for different aggregate sizes.

### Package

5 kg Tin



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### FOX BAU YAPI KİMYASALLARI ANONİM ŞİRKETİ

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### Shelf Life

When stored correctly at room temperature, away from direct sunlight, between +5°C and +30°C, 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, maximum 2 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.

### 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.

### Disclaimer

The data contained in this technical document is based on our scientific and practical knowledge. Fox Bau Yapı Kimyasalları A.Ş. 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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