

INNO-FLOOR FOX PURATHANE® SF BİNDER

Polyurethane Based, Two Component, EPDM and Rubber Granule Binder

Description

FOX PURATHANE® SF BİNDER is a two component, solvent free, polyurethane based EPDM and rubber granule binder that is privately designed for sports floors.

Field of Application

- Indoors and outdoors,
- As the binder of the rubber granules that is in of the shock-absorbing layer on industrial EPDM and rubber coatings,
- Sports arenas,
- Parks, gardens and playgrounds,
- It is used in decorative coatings.

Advantages

- Can be used indoors and outdoors.
- Solvent free.
- Has high splice strength.
- Has a structure that resistant to chemical effects, physical stresses and minor ground movements.
- Resistant to impacts.
- It has high binding power on 20% in SBR and EPDM granules.
- It never changes the color of the granules.

Technical Data

Color	Light Brown
Density	1,02 kg/liter
Working Time	30 minutes
Working Temperature	+10 °C / +30 °C
Fully Cured	7 days



The above values are given at + 23 ° C for 50% relative humidity. Higher temperatures shorten the duration, lower temperatures extend the duration.

Quality of Substrate

The concrete substrates on which the product is going to be applied should be durable and have compressive strength tensile strength (min. 25 N/mm²), the tensile strength of the substrate should exceed 1, 5 N/mm², residual moisture content of the substrate should not exceed 4 %. The substrate temperature should remain minimum +8°C and the current dew point of the substrate should be above +3°C. All substrates should be structurally sound, dry and clean. Oil, grease and other adhesion impairing contaminants should be removed.

Application Procedure

Preparation of Substrate

The concrete substrates on which the product is going to be applied should be prepared to achieve a porous surface by lifting the cement slurry and using abrasive equipment (shot blasting, milling cutter etc.). Weak concrete pieces should be removed from the surface, small gaps, holes should be fully opened. The resulting dust should be cleaned with the help of an industrial vacuum cleaner. Repairing the substrate, filling the gaps and fixing the surface should be make with **FOX MORTAR T FC 188 T** repair mortar.

Application Conditions

- Surface moisture content should be below 4%.
- Test method: CM - measurement or drying oven method.
- Must be free from rising moisture according to ASTM. (Polyethylene-sheet).
- Relative air humidity must be max 80%.
- Please beware of dew and condensation!
- The dew and water vapour concentration on the surface which the application has not been made and the new coating has been made will damage the coating. In order to prevent this, ground temperature must be above of min +3°

Points to take into consideration at application

Surface Temperature ; Minimum +10°C - Maximum +30°C
Ambient Temperature ; Minimum +10°C - Maximum +30°C
Temperature of the material ; Minimum +10°C - Maximum +30°C

Mixing

Before the mixing, temperature of product should be +15°C and +25°C. Mix A component **FOX PURATHANE® SF BİNDER** with appropriate mixer for 1 minute without dragging the air. Then, pour onto A component B component. Mix continuously for 2 minutes until a homogeneous mixture is obtained. Add EPDM or rubber granules after mixing components A and B. Mix continuously for more 2-3 minutes until a homogeneous mixture is obtained. Avoid from more mixing in order to minimize entrainment of air.

Mixing tools: Electric mixer (300 - 400 rpm), and epoxy/polyurethane resin the mixing tip.

Application

FOX PURATHANE® SF BİNDER the mixture of rubber granules is poured the paver machine and can be applied to the surface at the desired thickness.

Cleaning of Tools

Tools and equipments that are used after application must be cleaned carefully with solvent or polyurethane thinner. **FOX PURATHANE® SF BİNDER** can only be removed by mechanical means.

Watch Point

- The concrete surfaces to be coated with epoxy / polyurethane should be at least 3 weeks in advance of the application, the creation of a vapor barrier layer in floor covering on the ground floor and avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +10 or above +30°C
- The materials to be used at the appropriate temperatures should be brought and stored in the application area 1-2 days prior to the application and enabled to adjust the ambient conditions.
- In extremely cold conditions, the ambient and the surface temperature must be increase and the packages should be preconditioned to +20 - +25°C to become ready to use for workability of the products.
- The reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases the pot life, coating interval and the working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and the above mentioned times decrease accordingly. For the material to be cured properly, the ambient and the substrate temperatures should not fall below the specified limits. After the application, the material should be protected from direct contact with water for 24 hours minimum. Within this period, a contact with water may cause a surface carbonation and/or tackiness; both of which will cause the coating to lose its characteristics. In such cases, the overall coating should be removed from the floor and renewed.
- Consumptions are given for ideal conditions in which the ambient and surface temperatures are assumed to be 20 ° C. Actual consumption may vary depending on surface structure and ambient temperature. It should not be forgotten that the consumption will increase in damaged surfaces and in cold weather conditions.
- Mixing should be done with a mechanical drill at 300 - 400 rpm with epoxy/polyurethane mixing paddles. **DO NOT MIX BY HAND.**

Consumption

Up to 20% of the amount of EPDM and rubber granules

Package

20 kg set

A component; 13, 50 kg tin bucket

B component; 6, 50 kg tin bucket

Shelf Life

The shelf life is 12 months from the date of production under suitable storage conditions (+5°C and +30°C). Opened products must be applied as soon as possible.

Storage

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 2 palletes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palletes should not be placed on top of each other during long term storage.

Health and Safety Precautions

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children.

For detailed information please consult the Material Safety Data Sheet.

Disclaimer

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