

INNO-SEAL FOX PURMAX® PRIMER 1K RAPID

Polyurethane Based, One Component, Fast Curing, Transparent, Solvent Free Primer

Description

FOX PURMAX® PRIMER 1K RAPID, Polyurethane based, one component, solvent free, elastic, water impermeable, fast curing, low viscosity primer

Fields of Application

- As a primer before polyurethane based waterproofing coatings,
- As a primer on asphalt membranes,
- Mix with appropriate amount of silica sand to make repair mortar,
- As a primer under **FOX PURMAX®** series polyurethane and Polyurea waterproofing coatings,
- As interstitial undercoat in past polyurethane products,
- **FOX PURMAX® ULTRA**, Polyurea and Polyureatan systems with interlayer adhesion strengthened as primer,
- **FOX PURMAX® ULTRA** is used as a primer before sanding application to increase adhesion strength in coatings (ceramics, marble, etc.) to be applied after Polyurea and Polyurea systems.

Advantages

- Take a quick setting (overlay can be applied after about 2-4 hours),
- Can be used indoors and outdoors,
- Provides excellent adhesion,
- Has excellent chemical resistance,
- High bonding strength,
- Elastic,
- Easy to apply,
- Liquid impermeable,
- Hydrophobic (water repellent) feature,
- Does not contain volatile organic substance (VOC-solvent).

Technical Features

Density		1,17 gr/cm ³
Color		Transparent
Pendulum Hardness	DIN ISO 1522	150 s
Bonding Strength	Concrete	>2,71 N/mm ²
Total Solid Material Percentage		% 100
Dilution		No Dilution
Application surface Temperature		+10°C / +30°C
Viscosity	DIN 53015	220 MPa.s
Working time		2 hours
Overlay Coating		2-4 hours
Pedestrian Traffic		1 day

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

Surface Quality

Concrete substrates should be sound and have sufficient compressive strength (at least 25 N / mm²), tensile strength of at least 1,5 N / mm², maximum moisture content of 4% and minimum floor temperature of + 8 ° C. Also, care should be taken to ensure that the floor's dew point is above + 3 ° C. The bottom surface is clean, dry and must be free from foreign substances such as, dirt, oil, grease, coating and surface curing materials.

Application Procedure

Preparation of the Substrate

Concrete substrates should be prepared in such a way as to obtain an open pore surface by lifting the cement slurry using abrasive equipment (Shot Blasting, milling, diamond wiping, etc.). Weak concrete pieces must be removed from the surface, small gaps, holes should be made completely clear. The dust coming from the square should be cleaned with the help of an industrial vacuum cleaner. Substrate repairs should be made with **FOX MORTAR FC 188** repair mortar.

Application Conditions

- The surface moisture content should be below 4%. Test method: CM - measurement or method of drying the material.
- There should be no rising moisture according to ASTM. (Polyethylene cover test). Relative air humidity should be 80% maximum.
- Be careful of drowning and condensation!
- Dew condensation and water vapor condensation on untreated or newly coated surfaces will damage the coating. To prevent this, the floor temperature must be above + 8 ° C.

Considerations in Application,

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

Mixing

FOX PURMAX® PRIMER 1K is ready-to-use, no need for stirring or mixing.

Application

Apply **FOX PURMAX® PRIMER 1K** with roller, trowel or zero comb trowel. Make sure that the application is made to the whole surface with no gap. It is not recommended to use on porous surfaces. In such cases **EPOTHANE® PRIMER** or **EPOTHANE® PRIMER HB** should be used. After applying **FOX PURMAX® PRIMER 1K**, a minimum of 24 hours and a maximum of 48 hours is required to coat another coat. In cases exceeding 48 hours, it is necessary to apply primer.

Cleaning of the Tools

Tools and equipment used should be cleaned with solvent or polyurethane thinner after application. After **FOX PURMAX® PRIMER 1K** hardens; it can only be cleaned off the surface mechanically.

Consumption

According to surface condition it is recommended to use 150-300 gr / m² product on single layer.

Watch Points

- The concrete surfaces to be coated with epoxy / polyurethane must be at least 3 weeks old before application. It is necessary that the floor which is sitting on the soil floor has a vapor cut-off layer and that the building's roof, walls, doors and windows are made, 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 area 1 - 2 days beforehand and it is necessary to comply with the ambient conditions.
- In applications to be carried out in cold weather, the ambient and floor temperature should be increased and in order to increase the workability of the products, the packages should be ready to use at + 20/25 ° C.
- Prevent entry of rain, dust, wind, animal and poultry into the building when coating is fresh.
- Resin-based systems are affected by pot life and curing times, ambient temperature, and ground temperature and air humidity. At lower temperatures, curing is slower, which extends the pot life, overcoating time and working time. Curing at high temperatures accelerates, shortening the pot life, the coating time and the working time. Completion of the complete product should not be reduced below the minimum temperature levels given the ambient and floor temperature. After completion of the application, the coating should be protected from direct water contact for at least 24 hours. If there is water contact, there will be softening and swelling on the coating, which will cause the properties of the coating to be lost. For this reason, the coating must be completely removed and rebuilt.
- 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 bad weather conditions and cold weather conditions.
- Mixing must be done with an electric mixer of 300-400 rpm and the specified epoxy / polyurethane resin mixer. In case of not mixing with the specified mixing device, air will be dragged into the product, which will cause air bubbles to form on the coating after application.

Package

20 kg tin bucket

Shelf Life

Shelf life is 6 months from the date of production when stored properly at +5 oC to + 30 oC at room temperature, away from direct sunlight.

Storage

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 3 palettes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palettes 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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