

INNO- SEAL FOX PURMAX® 1K FS 601

Polyurethane Based, One Component, Uv Resistant, Waterproofing Material

Description

FOX PURMAX® 1K FS 601 is a polyurethane based, one component, UV resistant, low viscosity liquid insulation material developed for waterproofing and protection with high permanent elasticity.

Fields of Application

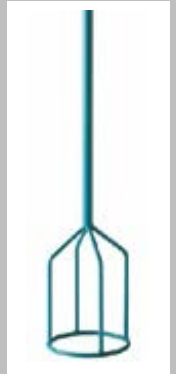
- Interior and exterior,
- Terrace, balcony and all wet areas,
- Roof and garden terraces,
- In flowering insulation,
- Positive insulation of foundation and curtain walls,
- Tunnels,
- In collection tanks,
- In ornamental ponds,
- Roof gutters,
- In underground water tanks,
- Parking lot terraces,
- For waterproofing of floors with light pedestrian and vehicle traffic,
- Protection of polyurethane thermal insulation foam,
- Used for waterproofing and protection of bridge, deck and stadium concretes.

Advantages

- Easy and fast application thanks to one component ingredient.
- It can be applied by brush, roller or airless spray.
- High elasticity and flexibility.
- Excellent adhesion to concrete.
- Excellent mechanical properties.
- High adhesion strength.
- It is liquid impermeable.
- Suitable for light traffic.
- It has excellent crack bridging even at low temperatures.
- Resistant to ponds on the terrace.
- It is capable of cracking bridging up to 2 mm even at -10 ° C.
- Can be used on green roofs with root resistance..

Technical Features

Density	TS EN ISO 2811-1		1,40 gr/cm ³
Color			Grey, White
Tensile Strength	DIN 53515		> 8 N/ mm ²
Splice Strength	DIN EN ISO 527	to concrete	> 2 N/ mm ²
Viscosity	EN ISO 3219		2500-3500 cP
Vapor Permeability	TS EN ISO 7783-1		0,8 gr/m ² hours
Dilution			No Dilution
Shore A Hardness	TS EN ISO 868	7 days	70
Elongation at Break	DIN EN ISO 527		% 600
Temperature Resistance	80 °C		100 days
QUV	ASTM G53		2000 hours
Application Temperature			+5°C +35°C
Application Period			40 minutes
Re-coating Period			8-24 hours
Fully cures in			7 days



The values above are given for +23°C and 50% relative humidity. While higher temperatures shorten the period, lower temperatures extend it.

Primer Selection Table

Surface Condition	Recommended Primer
Concrete suitable for the standard	EPOTHANE® PRIMER, EPOTHANE® PRIMER HB, FOX PURMAX® PRIMER 1K RAPID, EPOTHANE® PRIMER FL, EPOTHANE® PRIMER HB-FL
Moist bottom layers	EPOTHANE® PRIMER WB
Moist bottom layers (Moisture Barrier)	EPOTHANE® PRIMER HB, EPOTHANE® PRIMER HBF
High porous substrates	EPOTHANE® PRIMER, EPOTHANE® PRIMER SL
High porous moist substrates	EPOTHANE® PRIMER HB, EPOTHANE® PRIMER HBF
Steel, galvanized steel and aluminum surfaces	EPOTHANE® PRIMER HB, EPOTHANE® PRIMER WA, FOX PURMAX® PRIMER 1K RAPID
Wooden boards and some special surfaces	EPOTHANE® PRIMER, FOX PURMAX® PRIMER 1K RAPID
Asphalt and bitumen membrane surfaces	EPOTHANE® PRIMER SL, EPOTHANE® PRIMER HBF, FOX PURMAX® PRIMER 1K RAPID, FOX PURMAX® PRIMER 1K
Re-application on Application (Old-New)	EPOTHANE® PRIMER WA, FOX PURMAX® PRIMER 1K RAPID
Non-porous concrete and non-absorbent surfaces	EPOTHANE® PRIMER SL, EPOTHANE® PRIMER HBF, FOX PURMAX® PRIMER 1K RAPID, FOX PURMAX® PRIMER 1K
Ceramic, marble, granite and glossy surfaces	EPOTHANE® PRIMER WA

Surface Quality

The concrete sub-surfaces to be applied must have a strong and sufficient compressive strength (minimum 25 N / mm²), tensile strength of at least 1,5 N / mm², maximum humidity of 4%, floor temperature minimum + 8°C. Also, the dew point of the floor should be over + 3°C. The bottom surface must be clean, dry and free of any foreign objects such as dirt, oil, grease, coating and surface curing materials.

Application Procedure

Preparation of the Substrate

Concrete Surfaces

The oil, grease, fuel and paraffin residues must be removed and also completely free of mold release agents, cement residues, chips, loose particles and cured membranes. Surface defects, uneven surfaces and corner edges should be repaired with **FOX MORTAR T FC 188 T** repair mortar at a radius of at least 4 cm. Surface cracks should be filled with **PURSEAL PS 600** polyurethane sealant. Primed with suitable **EPOTHANE®** series primers.

Asphalt Surfaces

Asphalt surface should be cleaned with water jet. For applications under vehicle traffic, the load-lifting capacity of the asphalt must be in accordance with the loads in use. Asphalt surface should be sandblasted with shotblast until at least 60% of aggregates appear on surfaces and should be primed with suitable **EPOTHANE®** series primers.

Application Conditions

- Relative air humidity should be maximum 80%.
- Pay attention to dew point and condensation!
- Dew and water vapor condensation on the untreated or newly coated floor damages the coating. In order to avoid this, the floor temperature must be above + 8 ° C.

Watch Points in Application,

Surface Temperature ; Minimum +8°C - Maximum +30°C
Ambient Temperature ; Minimum +10°C - Maximum +30°C
Material Temperature ; Minimum +15°C - Maximum +30°C

Mixing

FOX PURMAX® 1K FS 601 contains pigment and filler. Mix the product with the electric mixer and the appropriate mixing tip until the homogeneous color is obtained and be sure not to leave any product at the bottom of the bowl and at the edges of the container. Avoid too much mixing to minimize air dragging.

Mixing tools: (300 rpm / 400 rpm) electric stirrer and epoxy / polyurethane resin mixing tip.



Application

Primer

The surfaces to be treated with **FOX PURMAX® 1K FS 601** must be primed with **EPOTHANE®** series primer. It is essential to observe the floor temperature (min + 8°C). During the application period on the primer, **FOX PURMAX® 1K FS 601** should be applied.

Waterproofing

FOX PURMAX® 1K FS 601 is applied in at least two coats with a roller, brush or airless spray. If applied by roller or brush, wait for at least 8 hours and maximum 24 hours between coats. After the 1st coat application, 60 gr / m² reinforcement mesh is applied. Then 2nd layer application is applied.

Cleaning of the Tools

After application, the tools and equipment used must be cleaned with solvent or polyurethane thinner. **FOX PURMAX® 1K FS 601** can only be removed from the surface by mechanical methods after curing.

Consumption

1,50-2,00 kg/m²

Watch Points

- The concrete surfaces to be coated with epoxy / polyurethane must be at least 3 weeks old prior to the application, forming a vapor barrier layer on the flooring of the soil, and the roof, walls, doors and windows of the building should be at least + 10 ° C and + 30 ° C.
- The materials to be used should be brought to the application area 1 - 2 days in advance and must be adapted to the ambient conditions..
- In cold weather applications, the ambient and floor temperatures should be increased, and the packages should be kept at + 20 ° C - 25 ° C and ready for use in order to increase the workability of the products.
- Rain, dust, wind, animals and pest must be prevented from entering the building when the coating is fresh.
- Pot life and curing times in resin based systems are affected by ambient temperature, ground temperature and humidity in the air. At low temperatures, curing slows down, which extends the pot life, the coating time and the working time. At high temperatures, curing is accelerated, reducing pot life, coating time and working time. In order for the entire product to cure, the ambient and floor temperatures must not be lowered below the minimum temperature levels. After completion of application, 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 and this will cause the coating to lose its properties. Therefore, the coating should be completely removed and rebuilt.
- Consumptions are given for ideal conditions where the ambient and surface temperatures are considered to be 20 ° C. Actual consumption according to surface structure and ambient temperature may vary. It should not be forgotten that consumption of damaged surfaces and cold weather conditions will increase.
- Mixing must be done with an electric mixer of 300-400 rpm and a mixing tip of the specified epoxy / polyurethane resin. In case of no mixing with the specified mixing tip, air will be drained into the product which will cause air bubbles to form on the coating after application.

Package

25 kg tin

Shelf Life

Shelf life is 6 months from the date of production when stored properly at + 5 ° C to + 30 ° C, room temperature away from direct sunlight. It must be protected from the side. The material should be used as soon as possible.

Storage

Store in cool and dry conditions protected from frost. In short-term storage, maximum 3 palettes can be stored on top of each other and delivery must be according to first in first out system. In long-term storage, do not store palettes on top of each other.



Health and Safety Precautions

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application. If such a contact occurs, it must be washed by soap and plenty of water. Consult a physician urgently if swallowed. Food and drink must be kept outside the application areas.

Must be stored away from children.

Please look at the Material Safety Data Sheet for detailed information.

Disclaimer

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