

INNO- SEAL FOX PURMAX® SPRAYTEC FS 562

Polyurethane Based, Two Component, Solvent Free, Waterproofing Membrane Applied With Special Spray Machines

Description

FOX PURMAX® SPRAYTEC FS 562 is polyurethane based, two component, solvent-free, elastic, crack-bridging, fast-curing, non-splice waterproofing membrane that does not lose its flexibility over time. Due to the application speed and fast curing feature, it minimizes the downtime of the facilities compared to the traditional waterproofing products. The reaction is very fast and can be applied with the help of special spray machines.

Fields of Application

- In open terraces for UV and sunlight, with **FOX PURMAX® POLYUREA TOPCOAT** or **FOX PURMAX® TOPCOAT**,
- Terrace, balcony and all wet areas,
- Roof and garden terraces,
- Swimming pools, ornamental pools,
- In aircraft hangars,
- In car park insulation and coatings,
- Water distribution lines and canallettes,
- Underground water tanks,
- In tunnels, channels, storage,
- Bridges and viaducts,
- In collection tanks,
- In prefabricated structures,
- Steel structures,
- On wide open terraces,
- Roof gutters,
- Flowerpot insulation,
- Insulation of foundations and curtain walls from the positive direction.

Advantages

- Cures in seconds and can be walked on after minutes,
- Applicable on horizontal and vertical surfaces,
- Provides easy solution in difficult details,
- Provides one piece application. Joint, no overlap details,
- Provides excellent adhesion,
- Has excellent chemical resistance,
- Has excellent mechanical strength,
- Has high puncture strength,
- Flexible, Resistant to abrasion,
- Has the ability of crack bridging,
- Excellent adhesion to almost all surfaces (concrete, steel, aluminum, fiber, wood, foam, etc.),
- Hydrophobic (water repellent),
- It is liquid impermeable and can be used with continuous water,
- 100% solid, VOC-free of solvent,
- Has excellent thermal resistance, the product never softens again, maintains its elasticity at low temperatures.



Technical Features

Structure of the material	A Component	Polyurethane resin
	B Component	Polyurethane hardener
Density	A Component	1,05 gr/cm ³
	B Component	1,10 gr/cm ³
Color		Grey
Mixing Rate		1:1 volume
Pull-off Strength	DIN EN ISO 527	18,9 N/mm ²
Break Strength	DIN 53515	37 N/mm ²
Elongation at break	DIN EN ISO 527	%400
Gel Time (hand mixing)		15-20 seconds
Shore A Hardness	DIN 5350	28 days
Shore D Hardness	DIN 5350	28 days
Application surface temperature		+10°C/+30°C
Relative humidity of the application surface		%85
Service temperature		-40°C/+120°C (Short time +250°C)

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

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Standard Concrete	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER HB, FOX PURMAX® PRIMER 1K RAPID
Moist Substrate	FOX EPOTHANE® PRIMER WB
Moist Substrate (Moisture barrier)	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF
Highly porous substrates	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER SL
High porous damp substrates	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF
Steel, galvanized steel and aluminum surfaces	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER WA, FOX PURMAX® PRIMER 1K RAPID
Wood plates 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
Reapply on Application (Old-New)	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 shiny surfaces	FOX EPOTHANE® PRIMER WA

Surface Quality

The concrete substrates to be applied must be sound and have sufficient compressive strength (at least 25 N/mm²), a tensile strength of at least 1.5 N/mm², a maximum moisture content of 4% and a 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 and dry, must be free from foreign substances such as free from all kinds of dirt, oil, grease, coating and surface curing materials.

Application Procedure

Preparation of the Substrate

Concrete Surface

Oil, grease, fuel and paraffin wastes must be removed and also completely free of mold release agents, cement residues, chips, loose particles and cured membranes. Surface defects, uneven surfaces should be repaired with **FOX EPOMORTAR FC510** or **FOX EPOCRETE** series epoxy repair mortar. Surface cracks should be repaired by filling with **FOX PURSEAL PS600** polyurethane mastic. The appropriate **FOX EPOTHANE®** series primer must be used.

Asphalt Surface

The asphalt surface should be cleaned with water jet. In applications that will be under vehicular traffic, the load lifting capacity of the asphalt should be in accordance with the loads in use. The asphalt surface should be primed with appropriate **FOX EPOTHANE®** series of primers, shot blasted until at least 60% of aggregates are visible.



Bitumen Surface

The loose pieces on the bitumen surface should be removed, the blisters opened and dried. Main cracks should be primed with appropriate **FOX EPOTHANE®** series primers, which must be opened, repaired and taped over.

Plywood/OSB Surface

Ensure that the mounting of the plates is done correctly, all joints should be cleaned and taped with suitable tapes, primed with appropriate **FOX EPOTHANE®** series primers.

Iron/Steel Surface

Prior to primer application graded with SA 2.5 grit, then should be primed with appropriate grade **FOX EPOTHANE®** series primer.

Primer

FOX PURMAX® SPRAYTEC FS 562 surfaces must be primed with EPOTHANE® series primer. Be sure to keep the ground temperature min +8°C.

Coating

FOX PURMAX® SPRAYTEC FS 562 system solutions and applications must be carried out by expert practitioners certified by **FOX BAU PROFESSIONAL Technical Service**.

Topcoat

FOX PURMAX® SPRAYTEC FS 562 does not have enough UV resistance. **FOX PURMAX® POLYUREA TOPCOAT** or **FOX PURMAX® TOPCOAT** products are applied with the help of roller or airless spraying machine to ensure sufficient UV resistance.

Cleaning of the Tools

Tools and equipment used immediately after application should be cleaned with solvent. Once **FOX PURMAX® SPRAYTEC FS 562** is cured, it can only be cleaned off the surface mechanically.

Consumption

FOX PURMAX® SPRAYTEC FS 562, with a consumption of 2.0-2.5 kg / m² under normal conditions, a thickness of approximately 2.0-2.5 mm is achieved. In some special cases consumption can be up to 4.0 kg/m².

Watch Points

- It is recommended that the concrete surfaces to be coated with Polyurea should be at least 3 weeks before application, the vapor barrier layer should be formed on the flooring which is in the ground floor, and the building wall, doors and windows should be made and the ambient and surface temperature must be at least -5°C and at most +40°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.
- When the coat is fresh prevent entry of rain, dust, wind, animal and poultry into the building.
- 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 the surface structure. Damaged surfaces should not be forgotten that the consumption will increase.
- **FOX PURMAX® SPRAYTEC FS 562** A and B components are ready-to-use products. No solvent or etc. should be mixed during the application,
- Used packaging should be stocked to prevent re-use.

Package

A Component; 225 kg barrel
B Component; 210 kg barrel

Shelf Life

Shelf life is 6 months from the date of production, when stored properly at room temperature, away from direct sunlight between +15°C and +25°C. Opened packages should be stored under appropriate storage conditions and consumed within 1 week.

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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