

INNO- SEAL

FOX PURMAX SPRAYTEC® FS560

Pure Polyurea Based, Two Component, Elastic, Fast Curing, Waterproofing Membrane Applied with Special Spray Machines

Description

FOX PURMAX® SPRAYTEC FS560 is a 100% Pure Polyurea based, two-component, solvent-free, crack-bridging feature waterproofing membrane that does not lose its flexibility over time, does not form a joint, fast curing, can be applied in almost any climatic conditions thanks to its unique chemical structure. Thanks to its application speed and quick curing feature, it minimizes the dwell time of the enterprises compared to traditional waterproofing products. Since its reaction is very fast, it can be applied with the help of special spray machines.

In compliance with TS EN 1504-2 / Principle 1.3, 2.2, 5.1, 8.2.

Fields of Application

- With **FOX PURMAX® TOPCOAT** or **FOX PURMAX® POLYUREA TOPCOAT** in terraces open to UV and sunlight,
- Terrace, balcony and all wet areas,
- On roof and garden terraces,
- Swimming pools, Ornamental pools,
- In aircraft hangars,
- Parking insulation and coatings,
- On water pipelines and canals,
- Underground water tanks,
- Tunnels,
- In Channel,
- In warehouses,
- In collection tanks,
- In prefabricated buildings,
- In steel structures,
- On wide span terraces,
- On the roof gutters,
- In flowerbed insulation,
- It is used on insulation of foundation and curtain walls from positive side.

Advantages

- Can be applied under extreme climatic conditions,
- Very cold, very hot or very humid environments do not adversely affect the curing time or performance of the product,
- Cures in seconds, can be walked in minutes,
- Can be applied on horizontal and vertical surfaces,
- Provides easy solutions in difficult details,
- Provides one piece application. There is no joint, overlay details,
- Provides perfect adherence,
- Has excellent chemical resistance,
- Has excellent mechanical strength,
- Has high puncture resistance,
- Flexible, resistant to abrasion,
- Has crack bridging ability,
- Adheres perfectly to almost all surfaces (concrete, steel, aluminum, wood, foam, etc.),
- Hydrophobic (water repellent) feature,
- It is liquid impermeable and can be used in continuous contact with water,
- 100% solids, VOC-Solvent free,
- It has excellent thermal resistance, the product never softens again, maintains its elasticity at low temperatures,



Technical Data

Structure of Material			%100 Pure Polyurea
Density		Component A	1,12 gr/cm ³
		Component B	0,94 gr/cm ³
Color			Gray
Mixture Ratio			1:1 Volume
Viscosity		Component A	800 ± 200 mPas
		Component B	1000 ± 200 mPas
Total Solid Matter Percentage			%100
Dilution			No Dilution
Tensile Strength	DIN EN ISO 527		27,7 N/mm ²
Breaking Strength	DIN 53515		55 N/mm ²
Elongation at Break	DIN EN ISO 527		%670
Gel Time			17 - 22 seconds
Shore A Hardness	DIN 53 505	1 day	98
Shore D Hardness	DIN 53 505	1 day	50
Carbon Dioxide Permeability			Sd >50 mt.
Capillary Water Absorption			W<0,1 kg/(m ² *h ^{0.5})
Application Surface Temperature			-5°C/+40°C
Highest Relative Air Humidity to be Applied			%100
Service Temperature			-40°C/+120°C

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

Primer Selection Table

Surface Condition	Recommended Primer
Concrete in accordance with the standard	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER HB, FOX PURMAX® PRIMER 1K RAPID
Moist substrates	FOX EPOTHANE® PRIMER WB
Moist substrates (with Moisture Barrier)	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF
High porous substrates	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER SL,
Highly porous moist 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
Wooden boards 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
Re-application on application (Old-New)	FOX EPOTHANE® PRIMER, 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

Concrete substrates to be applied must be solid and have sufficient compressive strength (at least 25 N / mm²). Tensile strength should be at least 1.5 N / mm², humidity maximum 4%, ground temperature minimum + 8°C. In addition, it should be noted that the dew point of the ground is above + 3°C. The bottom surface is clean, dry and should be free from foreign substances such as all kinds of dirt, oil, grease, coating and surface curing materials.



Application Procedure

Surface preparation

Concrete Surfaces

Oil, grease, fuel and paraffin wastes must be removed, as well as mold release agents, cement residues, chips, loose particles and cured membranes. Surface defects and uneven surfaces should be repaired with **FOX EPOMORTAR FC510** and **EPOCRETE** series epoxy repair mortars. Surface cracks should be repaired by filling with **FOX PURSEAL PS600** polyurethane sealant. It must be primed with suitable **FOX EPOTHANE®** series primers.

Asphalt Surfaces

Asphalt surface should be cleaned with water jet. In applications under vehicle traffic, the load-lifting capacity of the asphalt should be suitable for the loads in use. In order to at least 60% of aggregates are exposed, asphalt surface should be sandblasted with shot blast. Then it should be primed with suitable **FOX EPOTHANE®** series primers.

Bitumen Surfaces

Loose parts on the bitumen surface should be removed, blisters should be opened and dried. The main cracks should be opened, repaired and taped, primed with suitable **FOX EPOTHANE®** series primers

Plywood / OSB Surfaces

Ensure that the plates are mounted correctly. All joints must be cleaned, taped with suitable tapes and primed with suitable **FOX EPOTHANE®** series primers.

Iron and Steel Surfaces

Before primer application, the surfaces should be sandblasted in SA 2.5 quality and primed with suitable **FOX EPOTHANE®** series primers.

Application Conditions

- Surface moisture content should be below 4%.
- Test method: CM - measurement or method of drying the material.
- There should be no rising humidity according to ASTM. (Polyethylene cover test).
- Relative air humidity should be 100% maximum

Watch Points in Application,

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

Application

Priming

Surfaces to be made with **FOX PURMAX® SPRAYTEC FS560** must be previously primed with **FOX EPOTHANE®** series primer. Attention should be paid to the floor temperature (min +8°C).

Coating

FOX PURMAX® SPRAYTEC FS560 system solutions and applications should be applied through Expert Practitioner Dealers certified by **FOX BAU PROFESSIONAL** Technical Service.

Topcoat

FOX PURMAX® SPRAYTEC FS560 does not have sufficient UV resistance. **FOX PURMAX® POLYUREA TOPCOAT** or **FOX PURMAX® TOPCOAT** products are applied with the help of a roller or airless spraying machine in order to provide sufficient UV resistance.

Cleaning of the Tools

Tools and equipment used after the application should be cleaned with solvent. **FOX PURMAX® SPRAYTEC FS560** can only be mechanically cleaned from the surface after hardening.



Coverage

With the **FOX PURMAX® SPRAYTEC FS560** product, a thickness of approximately 2.0-2.5 mm is obtained with a consumption of 2.0-2.5 kg / m² under normal conditions. In some special cases, consumption may be up to 4.0 kg/m².

Watch Points

- Concrete surfaces to be coated with polyurea must be at least 3 weeks old before application, creating a vapor barrier layer on the floors that sit on the ground, and the roof, walls, doors and windows of the building have been made, the ambient and surface temperature must be at least +5°C and +40 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.
- Rain, dust, wind, animals and pest must be prevented from entering the building when the coating is fresh.
- Consumptions are given for ideal conditions where ambient and surface temperatures are considered as 20°C. Actual consumption may vary depending on the surface structure. It should be remembered that consumption will increase in bad surfaces.
- **FOX PURMAX® SPRAYTEC FS560** A and B components are ready to use products. During application, solvent etc. should not be added to the product.
- Used packages should be stored in a way that prevents re-use.

Package

Component A; 225 kg barrel

Component B; 210 kg barrel

Shelf Life

When stored properly at room temperature, away from direct sunlight, between +15°C and +25°C, shelf life is 12 months from the date of production. Opened packages should be consumed within 1 week by stored in appropriate storage conditions.

Storage

Should be stored in its original package, in a cool and dry place protected from frost. In short-term storage, maximum 3 pallets should be placed on top of each other and shipment should be made with the first-in, first-out system. In long-term storage, pallets should not be placed 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, the material should not be contacted with the skin and eyes, if contacted, should be washed immediately with plenty of water and soap, and if swallowed, should be sought medical attention immediately. Foods and drinks should not be taken into the application areas. The material should be stored out of the reach of children.

For detailed information, please refer to the Material Safety Data Sheet.

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Principles 1.3, 2.2, 5.1, 8.2

Determination of carbon dioxide permeability / $S_d > 50$ m

Determination of water vapor transition properties / Class III $S_d \geq 50$ m

Capillary water absorption and determination of water permeability /
 $W < 0,1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0,5})$

Determination of adhesion strength by pull-off method / Flexible
Systems, together with the traffic load
 $\geq 1,5 (1,0 \text{ min}) \text{ N}/\text{mm}^2$

Determination of abrasion resistance / < 3000 mg

Determination of resistance to impact / Class III: ≥ 20 Nm

Reaction to Fire / Class E

