

INNO- SEAL FOX PURMAX® BT2K FS702

Bitumen-Polyurethane Based, Two Component, Elastic, Waterproofing Material

Description

FOX PURMAX® BT2K FS702, It is a two-component, elastic, bitumen-polyurethane based waterproofing material with high mechanical strength, does not affected by the relative humidity in the environment.

It meets the requirements of EN 1504-2:2006 / Principle 1.3, 2.2, 8.2.

Usage Areas

- In terraces, balconies and all wet areas,
- On roof and garden terraces,
- In water supply lines and flumes,
- In underground water tanks,
- In tunnels,
- In collection tanks,
- In prefabricated buildings,
- In steel structures,
- On terraces with wide openings,
- In roof streams,
- In flower bed insulation,
- It is used for positive insulation of foundation and curtain walls.

Advantages

- Easy application.
- There will be no water leakage or connection where it is applied.
- High flexibility.
- Fast curing.
- Resistant to stagnant water and freezing.
- Prevents water vapor.
- It has crack-bridging feature.
- Heat resistance performance is between -40°C and 90°C.
- Cold resistant film maintains its elasticity down to -40°C.
- Excellent mechanical properties, high elongation, tensile, tear and abrasion resistance.
- It can be painted over with **FOX PURMAX® TOPCOAT**.

Technical Data

Structure of material	A Component		Polyurathane
	B Component		Bitümen
Density	A+B Mixture		1,17 gr/cm ³
Color			Black
Adhesion Strength	EN 1542	7 days	>1,5 N/mm ²
Tear Strength	DIN ISO 34-1	28 days	28 N/mm
Elongation at Break	DIN EN ISO 527		%1000
Shore A Toughness	TS ISO 7619-1	7 gün	80
Pot Life			20 minutes
Drying Time			12-24 hours

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



Surface Quality

Concrete substrates on which the application will be made must be strong and have sufficient compressive strength (minimum 25 N/mm²), tensile strength at least 1.5 N/mm², humidity maximum 4%, floor temperature minimum +8°C. In addition, care should be taken to ensure that the dew point of the floor is above +3°C. The substrate must be clean, dry and free of any foreign matter such as dirt, oil, grease, coating and surface curing materials.

Application Procedure

Surface Preparation

Oil, grease, fuel and paraffin waste should be removed, as well as 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 FC188 T** repair mortar with a radius of at least 4 cm with a chamfer. Surface cracks should be filled with **FOX PURSEAL PS600** polyurethane mastic and repaired. It should be primed with suitable **FOX EPOTHANE®** series primers.

Application Conditions

- Relative air humidity should be 80% maximum.
- Pay attention to dew and condensation!
- Dew and water vapor condensation on the untreated or newly coated floor will damage the coating. To prevent this, the ground temperature must be above +8°C.

Mixture

Mix the A and B components **FOX PURMAX® BT2K FS702** thoroughly with an electric mixer and a suitable mixing tip. After adding the A component product to the B component product completely, mix it continuously for 3-4 minutes until a homogeneous mixture is obtained. Avoid over-mixing to minimize air entrainment.

Mixing tools: (300 rpm - 400 rpm) an electric mixer and mixing tip.

Application

Primer

Standard concrete surfaces on which **FOX PURMAX® BT2K FS702** will be applied must be primed with **FOX EPOTHANE® PRIMER WB** or **FOX PURMAX® PRIMER 1K** primer beforehand. For concrete surfaces, the floor temperature (min +8°C) must be taken into account in the application of the primer. **FOX PURMAX® BT2K FS702** should be applied on the primer during the application period. Appropriate primers should be selected from the primer selection table for different surface types.

Primer Selection Table

Yüzey Durumu	Önerilen Astar
Concrete conforming to the standard	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER HB
Moist substrates (with Moisture Barrier)	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF, FOX EPOTHANE® PRIMER HB-FL
Steel, galvanized steel and aluminum surfaces	FOX EPOTHANE® PRIMER WA
wooden board surfaces	FOX PURMAX® PRIMER 1K
Asphalt and bitumen membrane surfaces	FOX EPOTHANE® PRIMER SL, FOX EPOTHANE® PRIMER HBF, FOX PURMAX® PRIMER 1K
Reapplication over Application (Old-New)	FOX EPOTHANE® PRIMER WA
On non-porous concrete and non-absorbent surfaces	FOX EPOTHANE® PRIMER SL, FOX EPOTHANE® PRIMER HBF, FOX PURMAX® PRIMER 1K
Ceramic, marble, granite surfaces	FOX EPOTHANE® PRIMER WA



Waterproofing Application

FOX PURMAX® BT2K FS702 yüzeye dökülerek çelik mala, çekbas ile düzgün olarak tek katta uygulanabilir. Uygulama yüzeyi mutlaka kirli rulo yardımıyla taranmalıdır. Eğer su yalıtım kaplaması UV ışınlarına maruz kalacaksa mutlaka **FOX PURMAX® TOPCOAT** uygulaması yapılmalıdır.

Cleaning of Tools

Tools and equipment used after the application should be cleaned with solvent or polyurethane thinner. After **FOX PURMAX® BT2K FS702** hardens, it can only be cleaned from the surface by mechanical methods.

Coverage

1,8-2,0 Kg/m²

Watch Points

- The concrete surfaces on which **FOX PURMAX® BT2K FS702** will be applied must be at least 3 weeks old before the application, a vapor barrier layer should be formed on the floors resting on the earthen ground, and the roof, walls, doors and windows of the building should be made, and the ambient and surface temperature should be at least minimum +10°C and maximum +30°C.
- The materials to be used must be brought to the application area 1- 2 days in advance and must adapt to the ambient conditions.
- In applications to be made in cold weather, the ambient and ground temperature should be increased, and the packages should be made ready for use by keeping them at +20°C- 25°C in order to increase the workability of the products.
- Application should be avoided in extremely hot weather.
- Rain, dust, wind, animals and insects should be prevented from entering the building when the coating is fresh.
- Actual consumption may vary depending on the surface structure and ambient temperature. It should not be forgotten that consumption will increase in uneven surfaces and cold weather conditions.
- Mixing must be done with an electric mixer at 300-400 rpm and the specified mixing tip. If mixing is not done with the specified mixing tip, air will be entrained into the product, which will cause air bubbles to form on the coating after application.

Package

40 Kg Set

A Component; 16 Kg tin bucket

B Component; 24 Kg tin bucket

Shelf-Life

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

Storage

It should be stored in its unopened original package, in a cool and dry environment, protected from frost. In short-term storage, maximum 3 pallets should be placed on top of each other and shipment should be made with a 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 storage and application areas with fire. Storage and application areas should be ventilated. During the application, work clothes, protective gloves, glasses and masks in accordance with the rules of work and worker health should be used. During storage and application, it should not be contacted with the skin and eyes, in case of contact, it should be washed with plenty of water and soap, and if swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into the application areas. It should be stored out of the reach of children.

For detailed information, the Material Safety Data Sheet should be consulted.

Disclaimer

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Dop No: 0102

EN 1504-2:2004

FOX PURMAX® BT2K FS702

Bitumen-Polyurethane Based, Two Component, Elastic,
Waterproofing Material

Principles 1.3, 2.2, 8.2

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

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

Determination of capillary water absorption and 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

With the traffic load $\geq 1,5$ (1,0 min) N/mm^2

Reaction to Fire / Class E

Dangerous materials / in accordance with clause 5.3



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