

INNO- SEAL FOX MULTIPLUS® FS540

Bitumen-Rubber Based, Single Component, Flexible Waterproofing Material

Description

FOX MULTIPLUS® FS540, bitumen-rubber based, one-component, solvent-free, ready-to-use, flexible waterproofing material with crack bridging feature.

It meets the requirements of EN 15814:2011+A2:2014 - CB1-W1-C1.

CB1 : ≥ 1mm Static Crack Bridging

W1 : 0,0075 N/mm² Pressured Water Permeability

C1 : 0,06 MN/m² Compressive Strength

Usage Areas

- Positive direction in indoor and outdoor, horizontal and vertical applications,
- On reinforced concrete surfaces that are under the ground and in constant contact with water,
- On surfaces such as foundation, curtain wall,
- On retaining walls,
- In basements and similar underground structures,
- It is used to protect concrete against underground water and microorganisms.
- It is used for adhering heat insulation boards.

Advantages

- Easy and fast to apply.
- It is applied with a brush or trowel.
- Solvent free.
- It can be applied on slightly moisture and dry surfaces.
- Long lasting, resistant to water, weak acids and some salt solutions.
- It creates a jointless, uninterrupted and permanent insulation layer.
- It can be used as a vapor barrier layer in horizontal applications.
- Resistant to freezing - thawing cycle.
- It is water based and environmentally friendly.

Technical Data

Structure of Material		Bitumen-Rubber Emulsion
Color		Dark Brown, Black
Mixture Density		1,20 kg/lit
Solid Material Ratio		%74
Static Crack Bridging	EN 15812	≥ 1 mm
Compressive Strength	EN 15815	0,06 MN/mm ²
Pressured Water Permeability	EN 15820	0,0075 N/mm ²
Application Surface Temperature		+5°C / +30°C
Service Temperature		-20°C / +80°C
Curing Time		24 hours
Contact Time with Water		48 hours
Final Curing Time		28 days

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



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Product Standards

TEST NAME	METHOD	TS EN 15814 TEST REQUIREMENTS	TEST RESULT
Static Crack Bridging +4°C	EN 15812	Class CB0: No value sought Class CB1: Crack Bridging ≥ 1 mm; Dry Film Thickness ≥ 3 mm Class CB2: Crack Bridging ≥ 2 mm; Dry Film Thickness ≥ 3 mm	CB1
Flexibility at Low Temperature 0°C	EN 15813	No cracks should be seen	Appropriate
Compressive Strength	EN 15815	Class C0: No value sought Class C1: 0,06 MN/m ² , Dry Film Thickness ≥ 3 mm Class C2A: 0,30 MN/m ² , Dry Film Thickness with mesh ≥ 4 mm Class C2B: 0,30 MN/m ² , Dry Film Thickness without mesh ≥ 4 mm	C1
Rain Resistance	EN 15816	Class R0: No value sought Class R1: ≤ 24 hours, Wet Film Thickness ≥ 3 mm Class R2: ≤ 8 hours, Wet Film Thickness ≥ 3 mm Class R3: ≤ 4 hours, Wet Film Thickness ≥ 3 mm	R0
Continuous Water Resistance	EN 15817	No color change in water According to EN 15817, there should be no change in the product	Appropriate
Dimensional Stability at High Temperature +70°C	EN 15818	No collapse or leakage should be observed	Appropriate
Reduction in Layer Thickness	EN 15819	At the end of 28 days, the decrease in layer thickness should be $\leq 50\%$	Appropriate
Pressurized Waterproofing (1mm open crack)	EN 15820	Class W1: 0.0075 N/mm ² for ≥ 24 hours, Dry film thickness with mesh ≥ 3 mm Class W2A: 0.075 N/mm ² for ≥ 72 hours, Dry film thickness with mesh ≥ 4 mm Class W2B: 0.075 N/mm ² for ≥ 72 hours, Dry film thickness without mesh ≥ 4 mm	W1
Fire Class	EN 13501-1	Euroclass	E

Application Procedure

Surface Preparation

The surface to be applied must be sound, free of any oil, grease, rust, paraffin, paint, bitumen residues that will prevent adhesion to the surface, and all loose parts must be cleaned. Iron and wooden wedges on the surface should be removed and active water leaks, if any, should be blocked with **FOX PLUG FC340**. Existing gaps, uneven surfaces and corner edges (at least 4 cm chamfering) should be made with **FOX MORTAR FC188 T (R4)** repair mortar. The surface must be primed before applying **FOX MULTIPLUS® FS540**.

Mixing

It is sufficient to mix **FOX MULTIPLUS® FS540** with a low speed electric mixer (400 - 600 rpm) and with the mixing apparatus whose shape is specified in the technical specifications section for 3 minutes.



Application

Primer

For primer application, 1 kg of material is taken from the **FOX MULTIPLUS® FS540** bucket, 5 liters of water is added to it in another mixing bowl and mixed with an electric mixer at 400 - 600 rpm for 3-5 minutes. The prepared mixture is applied homogeneously to the surface as a single layer with a brush. The primer should be allowed to dry.

Waterproofing Application

After the primer dries, **FOX MULTIPLUS® FS540** is applied to the surface in two layers with the help of a brush and at the specified coverage. After making sure that the insulation coating is completely dry, the foundation filling should be done. Before filling the foundation, it must be covered with drainage board or heat insulation plates, and it should be protected from impacts and tears that may occur during filling. It should not be applied when it is raining or in situations where it is likely to rain.

Cleaning of Tools

Tools and equipment used after the application should be cleaned with water. After **FOX MULTIPLUS® FS540** hardens, it can be cleaned from the surface mechanically with solvent.

Coverage

Primer; 0,25 kg/m²
1.layer; 1,50 kg/m²
2.layer; 1,25 kg/m²

Watch Points

- In the application of **FOX MULTIPLUS® FS540**, if the ambient and surface temperature is below +5°C or above +30°C, suitable temperatures should be expected.
- Application should not be made while it is raining or when it is likely to rain. Incompletely cured surfaces should not be exposed to water.
- For exterior applications, the application surface must be protected from sun, wind, rain or frost for the first 24 hours.
- Working and reaction times of bitumen rubber-based systems are affected by ambient and ground temperature and relative humidity in the air. The reaction slows down at low temperatures, which extends pan (pot) life and working time. High temperatures accelerate the reaction and the times mentioned above are shortened accordingly.
- In order for the material to complete its curing, the ambient and ground temperature must not fall below the minimum allowable temperature.

Package

16 kg plastic bucket

Shelf Life

Shelf life is 12 months from the date of production when properly stored at room temperature, away from direct sunlight between +5°C and +30°C. It should be protected from frost. Opened material should be used as soon as possible.

Storage

It should be stored in its unopened original package, in a cool and dry environment, protected from frost. For short-term storage, maximum 2 pallets should be placed on top of each other and the shipment should be made on a first-in, first-out basis. 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 occupational and worker health rules 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.



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