

INNO- SEAL

FOX MULTIPLUS® DUALGUM 1K SPRAY

Colloidal Dispersion Polymer Modified, Bitumen Rubber Based, One Component, Waterproofing Material

Description

FOX MULTIPLUS® DUALGUM 1K SPRAY is a colloidal dispersion polymer modified, bitumen-rubber based, one-component, water-based liquid membrane. It is a waterproofing material with high application efficiency and can be applied with a spray machine. It is a bitumen emulsion that has high elasticity and adheres perfectly to concrete and metal surfaces. Gives perfect results in vertical applications.

In compliance with TS EN 15814+A2 CB2-W2B-C2B-R2 conditions.

CB2 : ≥ 4 mm Static Crack Bridging
W2B: 0,075 N/mm² Pressure Water Impermeability
C2B : 0,30 MN/m² Compressive Strength
R2 : \leq Rain Resistance after 8 hours



Fields of Application

- From positive direction in vertical applications,
- On reinforced concrete surfaces that remain under the ground and have constant contact with water,
- On surfaces such as foundations, curtain walls,
- On terraces, garden terraces,
- On retaining walls,
- In underground structures such as basements etc.,
- For protection of the concrete from the underground waters, microorganisms,
- To adhere thermal insulation plates,
- Provides protection by keeping plant roots away thanks to its chemical structure.

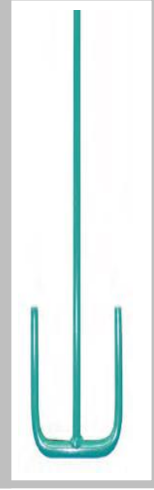
Advantages

- Can be applied easily and quickly by spraying machine.
- Provides accurate waterproofing solution,
- Has ≥ 4 mm crack bridging feature. Maintain this feature even at -20°C.
- Extremely high elasticity (%1500)
- Resistance to bacterial attacks at 40°C for 30 days under soil has been tested and approved.
- Creates broad, permanent insulation.
- Does not contain Radon gas.
- Blocks methane gas.
- Does not contain solvent, it is water based and environmentally friendly.
- Has long life time, has resistance to water, weak acids and some salt solutions.
- Resistant to freeze and thaw effects.
- Provides perfect solutions to details, applied fast and easily with spray machine,
- Can be applied even on fresh concrete,
- Foundation filling can be done in 2 days after



Technical Data

Structure of Material		Colloidal Dispersion Bitumen-Rubber
Color		Dark Brown, Black
Density		1,20 kg/lt
Percentage of Total Solid Matter		%72
Static Crack Bridging	TS EN 15812	≥4mm
Compressive Strength	TS EN 15812	0,30 MN/ m ²
Rain Resistance	TS EN 15816	≤8 hours
Pressure Water Impermeability	TS EN 15820	0,075 N/mm ²
Elongation at Break	DIN ISO 527	%1500
Recovery in Elongation	ASTM D 412	%80
Application Surface Temperature		+5°C / +30°C
Service Temperature		-20°C / +80°C
Touch Curing Time		1 hour
Curing Time		8 hours
Contact Time with Water		24 hours
Fully Cured Time		7 days



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

Product Standards

TEST NAME	METHOD	TS EN 15814 TEST REQUIREMENTS	RESULTS
Static Crack Bridging +4°C	TS EN 15812	Class CB0: No value is required Class CB1: Crack Bridging ≥1mm; Dry film thickness ≥ 3 mm Class CB2: Crack Bridging ≥2mm; Dry film thickness ≥ 3 mm	CB2
Flexibility at Low Temperature 0°C	TS EN 15813	Crack should not be seen	Suitable
Compressive Strength	TS EN 15815	Class C0: No value is required Class C1: 0,06 MN/m ² , Dry film thickness ≥3mm Class C2A: 0,30 MN/m ² , Dry film thickness with mesh ≥4mm Class C2B: 0,30 MN/m ² , Dry film thickness without mesh ≥4mm	C2B
Rain Resistance	TS EN 15816	Class R0: No value is required Class R1: ≤ 24 hours, wet film thickness ≥3mm Class R2: ≤ 8 hours, wet film thickness ≥3mm Class R3: ≤ 4 hours, wet film thickness ≥3mm	R2
Continuous Water Resistance	TS EN 15817	No color change in water There should be no change in the product according to EN 15817	Suitable
Dimensional Stability at High Temperature +70°C	TS EN 15818	Collapse or flow should not be observed	Suitable
Decrease in Layer Thickness	TS EN 15819	Decrease in layer thickness should be 50% after 28 days	Suitable
Pressure Water Impermeability (1 mm open crack)	TS EN 15820	Class W1 : ≥ For 24 hours 0,0075 N/mm ² , Dry film thickness without mesh ≥ 3 mm Class W2A: ≥ For 72 hours 0,075 N/mm ² , Dry film thickness without mesh ≥ 4 mm Class W2B: ≥ For 72 hours 0,075 N/mm ² , Dry film thickness without mesh ≥ 4 mm	W2B
Fire Class	TS EN 13501-1	Euroclass	E



Application Procedure

Preparation of Substrate

The surface to be applied must be solid, free from 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 (chamfer making at least 4 cm) should be done with **FOX MORTAR FC188 T (R4)** repair mortar. The surface must be primed before application of **FOX MULTIPLUS® DUALGUM 1K SPRAY**.

Mixing

It is sufficient to mix **FOX MULTIPLUS® DUALGUM 1K SPRAY** with a low speed electric mixer (400 - 600 rpm/min) and the mixing tip indicated in the technical section for 3 minutes.

Application

Priming

For primer application, **FOX MULTIPLUS® DUALGUM 1K SPRAY** is applied on the surface at a rate of approximately 250-300 gr / m². Wait at least 1 hour for the primer to dry. This period may increase according to the climatic conditions.

Waterproofing Application

After drying of the primer, **FOX MULTIPLUS® DUALGUM 1K SPRAY** is applied to the surface with the help of a spraying machine in two coats and at the specified consumption. Wait at least 8 hours between coats depending on weather conditions. Depending on the climatic conditions, the insulation coating should be left to dry for at least 2 days, and foundation filling should be done after ensuring that it is completely dry. Before foundation filling is made, it must be covered with drainage plate and thermal insulation plates and it must be protected from shocks and tears that may occur during filling. Application should not be made while it is raining or potentially raining.

Cleaning of the Tools

Tools and equipment used after the application should be cleaned with kerosene, diesel or solvent.

Coverage

In order to obtain 1mm thickness, application should be applied as ~ 1, 20 kg / m².

Watch Points

- In application of **FOX MULTIPLUS® DUALGUM 1K SPRAY**, if the ambient and surface temperature is below +5°C or above +30°C, suitable temperatures should be expected.
- All surfaces on which **FOX MULTIPLUS® DUALGUM 1K** will be applied must be solid and free of materials such as dirt, dust, dirt, grease, decomposition, congestion.
- In exterior surface applications, the applied surface should be protected from sun, wind, rain or frost.
- Application should not be made while it is raining or when it is possible. Surfaces that are not fully cured should not be exposed to water.
- **FOX MULTIPLUS® DUALGUM 1K SPRAY** should be mixed with the mixing apparatus whose shape is specified in the technical specifications section.
- **WATER DEFINITELY SHOULD NOT BE ADDED** to the product, if water is added, it will cause the product to deteriorate.
- To prevent bubble / bubble formation on the surface after application, it is recommended to shade the surface, apply in the morning hours when the sun's rays are low or in the evening hours.
- The blisters occur in applications made under extreme sunlight, these areas should be repaired later.

Package

200 kg barrel
1000 kg IBC

Shelf Life

When stored properly at room temperature, away from direct sunlight, between +5°C and +30°C, shelf life is 12 months from the date of production. It should be protected from frost. The opened material should be consumed as soon as possible.

Storage

Should be stored in its original package, in a cool and dry place protected from frost. In short-term storage, maximum 2 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.

Disclaimer

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TS EN 15814+A2

Dop No:0040

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Colloidal Dispersion Polymer Modified, Bitumen Rubber
Based, One Component, Waterproofing Material

Determination of Water Impermeability: Class W2B

Crack Bridging Ability: Class CB2

Compressive Resistance: Class C2B

Resistance to Rain: Class R2

Reaction to Fire: Class E

Water Resistance: Passing

Flexibility at Low Temperature: Passing

Dimensional Stability at High Temperature: Passing

Reduction in fully dried layer thickness ≤%50 (MLV)

Dangerous materials: NPD

