

INNO- SEAL

FOX MULTIPLUS® DUALGUM 1K

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

Description

FOX MULTIPLUS® DUALGUM 1K is a colloidal dispersion is a polymer-modified, one-component, bitumen-rubber based, water-based liquid membrane. It is a very fast drying waterproofing material with ultrahigh application efficiency. It is a bitumen emulsion that has high elasticity and adheres perfectly to concrete and metal surfaces.

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

CB2 : ≥ 4 mm 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 side in vertical applications,
- On surfaces which remains underground and has contact with continuous water,
- On surfaces such as foundations and curtain walls,
- 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,
- Used in the solution of basic pile head details.

Advantages

- Applied with brush and trowel.
- Applied easily and fast.
- Provides perfect waterproofing.
- Has crack bridging feature. It maintains crack bridging feature even at -20 oC.
- Resistance to bacterial attacks at 40°C for 30 days under soil has been tested and approved.
- Can be applied even to fresh concrete.
- Creates a joint-free, broad and permanent insulation layer.
- Radon gas impermeable,
- Blocks methane gas.
- It is solvent-free, water-based and environmentally friendly.
- It is long-lasting, resistant to water, weak acids and some salt solutions.
- Resistant to freeze-thaw cycle.



Technical Data

Structure of Material		Colloidal Dispersion, Bitumen-Rubber
Color		Dark Brown, Black
Density		1,25 kg/ltr
Percentage of Total Solid Matter		%70
Static Crack Bridging	TS EN 15812	≥4mm
Compressive Strength	TS EN 15815	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	%2000
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 CB 1 : Crack Bridging ≥ 1 mm Dry film thickness ≥ 3 mm Class CB 2 : Crack Bridging ≥ 2 mm 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 ≥ 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	C2B
Rain Resistance	TS EN 15816	Class R0 : No value is required 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	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 with 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**.

Mixing

It is sufficient to mix **FOX MULTIPLUS® DUALGUM 1K** 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** is applied on the surface at a rate of approximately 150-200 gr / m². Wait at least 1 hour for the primer to dry.

Waterproofing Application

After drying of the primer, **FOX MULTIPLUS® DUALGUM 1K** is applied to the surface with the help of a brush or a trowel in two coats and at the specified consumption. After making sure that the insulation coating is completely dry, foundation filling should be done. 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

Primer; ~0,25 kg/m² 1stcoat; ~1,25 kg/m² 2ndcoat; ~1,25 kg/m²
In order to obtain 3mm dry film thickness, application should be applied as ~3 kg/m².

Watch Points

- In application of **FOX MULTIPLUS® DUALGUM 1K**, 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.
- Pedestrian traffic is allowed 3 hours after the application is completed.
- 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** should be mixed with the mixing apparatus whose shape is specified in the technical specifications section.

Package

25 kg bucket

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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Sartech Yapı Malzemeleri San. Tic. Ltd. Şti.
Antalya Organized Industrial Zone Part 1, Street 7, No: 6
Döşemealtı / ANTALYA / TURKEY

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TS EN 15814+A2

Dop No:0042

FOX MULTIPLUS® DUALGUM 1K

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

