

ELASTAN-BIT

Multi-purpose bituminous liquid membrane



Description

ELASTAN-BIT is a multi-purpose liquid waterproofing membrane, formulated with bitumen in water emulsion, selected elastomeric resins and special additives.

Advantages

- Excellent elasticity.
- Waterproofs and protects from atmospheric agents and from UV rays.
- Encourages the cold laying.
- Perfect grip on different materials.
- Compatible with cementitious adhesives.
- Odourless and non-flammable product.
- Non-toxic, solvent free
- Good resistance to saline solutions.

Application fields

ELASTAN-BIT is suitable to waterproof:

- old and new bituminous membranes,
- flat non-walkable concrete surfaces,
- foundation walls and concrete shafts,
- balconies and terraces,
- bathrooms and showers,
- fibrocement,
- metal coverings,
- where the use of torches for the polymer bitumen membrane application is forbidden,
- coating and waterproofing concrete balconies, before bonding stoneware or klinker tiles where a solution with bitumen polymer membranes is not possible;

- create a waterproofing and bonding primer for subsequent bonding of tiles with the appropriate cementitious adhesives (category C according to EN 12004);
- recommended for cold bonding of polymer bitumen membranes on old polymer bitumen membranes or new coverings made of concrete, metal or wood, alternatively to the traditional torch-applied polymer bitumen membrane,
- diluted at 50% it can be used as an anti-dust primer and in any case it already constitutes a waterproof surface on which to apply one or more coats of the product.

Surface preparation

Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, disarming oils and carefully clean the surfaces, that must be sound and dry. Before application fastness and efficiency of water run-off points must be checked. The product can also be applied on slightly damp surfaces provided that there is no water stagnation.

Application

It can be applied by roller, brush, broom or airless spray (dilutable with water). Normally the product is applied in two coats.

To help the application on large surfaces, it is recommended to apply the first layer with a water dilution up to 5%.

Apply the second coat right after the first fresh coat, if this one has been reinforced with a proper non-woven textile, otherwise wait up till complete product drying for around 24-48 hours, depending on weather conditions and porosity of the surface.

On surfaces larger than 10 m² or supports under stress we suggest strengthening ELASTAN-BIT with an appropriate nonwoven polyester reinforcement drowned into the first still fresh coat.

After use, clean the tools with water.

If the product had dried on them, remove it with warm water or white spirit.

Consumption

The average consumption depends on the treated surface and on the layer desired thickness.

Usually the quantity needed is between 1,2 and 1,8 kg/m².

To obtain a dry film of 1 mm, the quantity to be used is approximately 1,6 kg/m².

For the application of non-woven fabric in polyester, the total consumption is 1,8 ÷ 2,2 kg/m².

Warning

We recommend to apply the product at room temperature not below +5°C, avoiding extreme weather conditions such as heat and cold or simply fog, rain and frost.

We recommend not to apply the product on just laid bituminous surfaces, which could still release hydrocarbons and cause adherence problems of the film on the liquid membrane.

Do not exceed the suggested average consumption for each coat.

In the contrary case the water evaporation would stop inside the liquid bituminous product remaining trapped under the dried film.

On surfaces larger than 10 m² or supports under stress we suggest strengthening ELASTAN-BIT with an appropriate nonwoven polyester reinforcement drowned into the first still fresh coat.

Temperatures over +35°C may compromise the product workability because of too fast drying of the film surface.

In order to avoid the formation of bubbles, the application on particularly humid slabs or supports must include the application of suitable exhalers to eliminate the condensation that forms under the waterproof covering.

It can be stepped on in case of occasional maintenance.

We suggest using appropriate protective coatings in order to extend the duration of ELASTAN-BIT.

Do not use on surfaces subject to rising or strong water pressure.

The product must be applied or stocked at a temperature above +5°C.

Once the product gets frozen, it is not recoverable anymore.

For further information please ask for safety datasheet.

Technical data

Main characteristics	Norm	Value
Aspect		Thixotropic paste
Colour		Black when dried
Shelf life in closed original container		12 months
Solid content (m/m at 130°C)	UNI EN ISO 3251	(60÷68)%
Viscosity Brookfield (at 20°C, Impeller n.6; - 10 rpm)	UNI EN ISO 3219	(50.000±10.000)cP
Density (at 20°C)	UNI EN ISO 2811-1	(1,21±0,04)kg/L
pH (at 20°C)		8,3÷9,0
Flexibility at low temperatures	UNI EN 15813	-30°C
Dimensional stability at high temperatures	UNI EN 15818	+150°C
External drying time		4 hours
Drying time for finishing covering		24÷48 hours *
Performance characteristics - EN 1504-2 Surface protection systems for concrete (C Coverings - Principles: PI - MC - IR)		
Permeability to CO ₂	UNI EN 1062-6	S _p > 50 m
Water vapour permeability	UNI EN ISO 7783	Class I (S _p < 5 m)
Liquid water permeability	UNI EN 1062-3	w < 0,1 Kg/m ² ·h ^{0.5}
Tensile bond strength (by pull off)	UNI EN 1542	≥ 1 N/mm ²
Performance characteristics UNI EN 14891 Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives		
PERFORMANCE CHARACTERISTICS	REQUIREMENTS EN 14891	PRODUCT PERFORMANCE
Initial tensile adhesion	> 0,5 N/mm ²	> 0,5 N/mm ²
Tensile adhesion after water contact	> 0,5 N/mm ²	> 0,5 N/mm ²
Tensile adhesion after heat ageing	> 0,5 N/mm ²	> 0,5 N/mm ²
Tensile adhesion after freeze/thaw cycles	> 0,5 N/mm ²	> 0,5 N/mm ²
Tensile adhesion after contact with lime water	> 0,5 N/mm ²	> 0,5 N/mm ²
Water impermeability	None penetration	Waterproof
Crack Bridging ability (at -20°C)	> 0,75 mm	> 0,75 mm
Classification according to EN 14891	Class DM 02	Waterproof product applied in dispersed liquid with improved crack bridging capacity at low temperature (-20°C)

*Measures have been recorded with a temperature of +23°C and a moisture of 50%. Declared data can change depending on the thickness of applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, absorption capacity of surfaces.

We reserve the rights to change or modify the nominal values without prior notice or advice. The information contained in this data sheet are based on our experience. We cannot take any responsibility for a possible incorrect use of the products. The customer has to choose under their own responsibility a product fit for the intended use.

Packaging

Pail size	Pails per pallet
10 kg	64
20 kg	42

