

Mavip Guard 2017

Product Data Sheet (TDS)

DESCRIPTION

Mavip Guard 2017 is one-part reactive water repellent impregnation, colourless liquid based on active silanes & siloxanes mixture.

Mavip Guard 2017 penetrates well into the open pores of the substrate, providing durable water repellency, while still allowing water vapour diffusion in both directions to protection concrete structures, renders, face bricks, exposed concrete blocks, natural and artificial stone, etc.

Mavip Guard 2017 complies with the requirements of EN 1504-2 for hydrophobic Impregnations (penetration depth class I).

Mavip Guard 2017 is suitable for use in hot and tropical climatic conditions.



PRODUCT & TECHNICAL DATA

Composition	Silanes / Siloxanes
Appearance / Colour	Colourless liquid
Mix Density	1.03 g/cm ³
Dry solids content	approx. 5%
Brookfield viscosity (mPa•s)	approx. 10 (shaft 1 - 100 revs)
Surface drying time	1-2 hours
Ambient Air Temperature	(+5 °C) – (+35 °C)
Substrate Temperature	(+5 °C) – (+35 °C)
Capillary action water absorption coefficient	W24 (EN 1062-3) [kg/(m ² •h0.5)] No vertical slip ≤ 0.5 mm
Facing bricks	0.04 (15.60 saturation)
Conventional render	0.05 (10.40 saturation)
Tuff stone	0.07 (6.80 saturation)
Cementitious smoothing layers	0.38 (15.60 saturation)

USES

- Mavip Guard 2017 is used as water repellent and colourless protective surface treatment on absorbent exposed materials such as concrete structures, renders, face bricks, exposed concrete blocks, natural and artificial stone, etc
- Mavip Guard 2017 is used as water-repellent impregnation (hydrophobic treatment) for absorbent substrates such as concrete in civil engineering or building concrete structures.
- Mavip Guard 2017 Keeping external walls clean of sticking dust and other dirt particles.

ADVANTAGES

- Reduction of capillary water absorption.
- Reduces dirt penetration into the pores.
- Improves thermal insulation.
- Higher durability and resistance than conventional silicone-based treatments.
- Does usually not change the appearance of the substrate.
- Does not act as a vapour barrier.

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COVERAGE

The consumption rate is heavily influenced by the absorbency of the substrate, and varies approximately from 0.20 -1 kg/m².

Listed below are several materials with their typical consumption rates:

- facing bricks: 0.50-0.75 kg/m².
- conventional render: 0.50-0.80 kg/m².
- tuff stone: 0.50-1.00 kg/m².
- cementitious smoothing layers: 0.20-0.40 kg/m².
- marble: 0.20-0.50 kg/m².

APPLICATION PROCEDURE

Surface preparation

Substrate surface must be free from dirt, dust, grease, oil, paint, salt laitance, moss and weeds because that might prevent Mavip Guard 2017 from penetrating deeply.

Cracks in concrete of more than 200 µm must be repaired prior to application of the hydrophobic treatment.

For old surfaces, the choice of cleaning system will depend on the kind of dirt involved.

Washing with cold water is generally sufficient. Cleaning is best achieved by brushing with suitable detergents or by light blastcleaning or steam cleaning etc.

Best results are obtained on dry, very absorbent substrates.

Mavip Guard 2017 should only be applied to dry surfaces.

If water is present, it is unable to penetrate deep down into substrate.

Mixing

Mavip Guard 2017 is ready to use and should not be diluted with water.

Application

Mavip Guard 2017 is applied by using low pressure spray by back-pack spray gun for large surfaces or brush or roller, working from bottom up taking care not to let the product run or form layers of the product during application.

Apply subsequent coats "wet on wet" until the surface is completely saturated.

Go over the surface with a sponge float if necessary while the product is still wet.

Curing

Mavip Guard 2017 does not require any special curing but must be protected from rain for at least 3 hours at +20 °C.

Recommendations

- Mavip Guard 2017 is not suitable to use with these cases:

- * Horizontal surfaces (terraces).

- * Basements, water tanks.

- * Walls subject to rising damp carrying salts.

- * Lift wells and areas subject to water under pressure.

- * Gypsum surfaces;

- * Synthetic plasters and surfaces decorated with synthetic paint.

- * Carry out a preliminary test to ensure no color changes take place on the substrate when Mavip Guard 2017 is to be used on natural stones, colored renders or on other types of substrates that show no uniform absorbency.

- Minimum age of concrete or mortar: at least 4 weeks.

- Do not overcoat with limewash or cement paint.

- Do not apply Mavip Guard 2017 on damp substrates or on substrates that are not well cured.

- Do not apply Mavip Guard 2017 if the temperature is lower than +5°C or higher than +35°C (the surface should not be exposed to direct sunlight).

- Do not apply Mavip Guard 2017 if the level of humidity is higher than 85%.

- Do not apply Mavip Guard 2017 if it is about to rain or in windy weather.

CLEANING

Clean all the tools with water immediately after use.

Hardened materials can be removed mechanically only.

PACKING

Mavip Guard 2017 is supplied in drums 20 kg.

SHELF LIFE

Shelf life is up to 12 months from production date when stored as per recommendations.

STORAGE

Product must be stored in original unopened packaging, under cover, out of direct sunlight and protect from extreme temperatures.

In tropical climates the product must be stored in air-conditioned environment.

HEALTH AND SAFETY

As with all construction chemical product, caution should be always be exercised.

Protective clothing such as gloves and goggles should be worn.

Treat any splashes to the skin or eyes with fresh water immediately.

Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

