

Betsilan

Water repellent silane/siloxane water emulsion for the protection of mineral surfaces

PRODUCT DESCRIPTION

Betsilan is a water-based impregnation emulsion based on silane/siloxane with excellent hydrophobic properties (beading effect), designed for the protection of masonry and concrete surfaces. Betsilan penetrates deep into mineral surfaces and has very good water repellency properties. The product protects mineral surfaces from environmental influences, helping to prevent surface degradation. Suitable for use on both new and old concrete. Also works very well as a **dust brake**.

TYPICAL APPLICATIONS

- Concrete and stone floors
- Concrete elements and panels
- Aerated concrete
- Designed for both indoor and outdoor use
- Fiber cement boards
- Plastered walls and masonry mixtures
- Bricks
- Limestones and sandstones
- Gypsum containing products
- Suitable for use as a primer for emulsion paints and plasters.

BENEFITS & ADVANTAGES

- Excellent penetration depth
- Fast water repellent effect and breathable coating
- Good resistance to water absorption through the capillaries without closing the pores
- Excellent vapor permeability
- High resistance to alkali
- Stable on storage
- Protects against rain and flowing water
- Prevents and stops the growth of microorganisms
- The appearance of the substrate remains the same
- Effectively replaces solvent based silane/siloxane products
- Ensured good adhesion when used as a primer.
- Water soluble and environmentally friendly
- Withstand technical stress
- Long-term protection for the structure
- Additional resistance to attack by dilute acids and alkalis
- Increases concrete surface hardness

HANDLING & PROCESSING

Betsilan should not be used at temperatures below +5 °C (at high temperatures it is recommended to apply in the morning or late at night). Betsilan should be applied in two coats using the wet-on-wet method. It is important that the first coat should not dry before applying the second coat. On vertical surfaces, the solution (Betsilan) should run down in the form of a clearly visible descending wet curtain should run down clearly visible wet like curtain.

Betsilan should be applied undiluted, directly to the surface using a spay, brush, or roller. Eye protection should be used when spaying.

Spraying with a sprayer, the installation speed is 100- 150 m² per hour.

Stir the product before applying. Substrates to be treated should be dry and clean.

➤ Surface treatment on concrete

Before processing the concrete, the concrete should be cleaned thoroughly. It is recommended to wash old concrete surfaces with a pressure washer. Make sure that the concrete is thoroughly dry and free from any moisture for at least 24 hours before applying Betsilan. Cracks must be repaired and covered with material prior to installation float 1 liter per 3-4 running meters. The testing determines, if there any leaks, it should be checked at least 12 hours. After detecting leaks, the first step is to repair the cracks (injection). Joints etc. must be sealed before application. In the case of new concrete, it is recommended to apply Betsilan within 2 to 4 weeks.

Wishing to use Betsilan hardener or as a sealing material, the product can be applied directly to concrete after removing the formwork. For better results a second application after 28 days is recommended.

The concrete surface should be flooded with Betsilan, there should be no puddles on the surface.

If it rains before Betsilan dries, the material must be reapplied.

COVERAGE RATES

Suitable Substrates	Approximate Consumption	Application Method
Concrete	200g/m ²	Airless spraying
Masonry, street stone	300g/m ²	Airless spraying
Limestone, sandstone	250g/m ²	Airless spraying
Brick	250g/m ²	Airless spraying



Technical Data Sheet

Betsilan

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TYPICAL PROPERTIES

Property	Unit	Value
Appearance		White liquid
Relative density	kg/l	0,96
pH		6-8
Dry time		Min. 2- 4 h
Paintable		Excellent
Recoat		24 h
Flash Point		absent
Explosion hazards		absent

MANUFACTURER CONTACT

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STORAGE

The product must be kept in the shade at a minimum temperature of 5 °C.

The product has a shelf life of at least 12 months if stored in originally sealed containers. Stir before use and protect from freezing.

HEALTH AND SAFETY

Before considering the use of Betsilan product please read its Safety Data Sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use.

The Safety Data Sheet is available on our website www.slprotection.eu or upon request from your local representative.

PACKAGING

Betsilan (liquid) is available in 1000 L IBC containers. At the customer's request, it can also be packaged in other containers, such as 1L, 3L, 5L, 25 L canisters.

WASTE DISPOSAL

When disposing of waste, follow local waste management regulations and take hazardous waste to an appropriate collection point.

SHELF LIFE

The product has a shelf life of at least 12 months if stored in originally sealed containers



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NOTE: All reasonable precautions have been taken in the manufacture of Betsilan products to ensure compliance with Betsilan high-quality standards. Recommendations and product features are believed to be based on the most reliable information available, and do not constitute recommendations to infringe the rights of other patents. Although all Betsilan products undergo rigorous quality testing, no specific guarantee can be given as results depend not only on quality but also on factors beyond our control. Therefore, we are happy to consult with you in case of any doubts regarding the application or the indicators, also pointing out that any oral recommendations other than those given here are not binding without written confirmation from Betsilan. All transactions are subject to our terms of sale, delivery and service. This data sheet supersedes the previous one, a superseding version can be issued without notice, if necessary. The information on this page is true and reliable to the best of our knowledge. The offered on-site service cannot be taken as responsible supervision. Therefore, our warranty is limited to the quality of the materials supplied.