

Betsilan Roadseal

Hydrophobic impregnation agent for concrete road structures.

PRODUCT DESCRIPTION

Betsilan Roadseal is a high-tech impregnation agent specifically designed for hydrophobic protection and long-term durability of concrete and reinforced concrete. The product is based on silane, providing top-level protection against moisture, salts, and environmental effects. It protects and enhances the durability of concrete against freeze-thaw cycles and chloride impact, significantly extending the service life of structures.

TYPICAL APPLICATIONS

Betsilan Roadseal is suitable for the water repellent impregnation of concrete and for hydrophobic treatment.

- High-strength concrete
- Reinforced concrete
- Fiber cement board
- Cast-in-place and precast concrete

BENEFITS & ADVANTAGES

- Significant reduction of water uptake
- 99% active content
- High reactivity and resistance to alkali-silica
- Penetrates deeply into concrete surfaces.
- No formation of sticky silicone films
- Invisible, high water vapor permeable protection
- Reduction in the uptake of water-soluble pollutants
- Quick dry time (~1 hour)
- Great adhesion of coatings and paints
- The breathability remains unchanged

TYPICAL PROPERTIES

Property	Unit	Value
Appearance		Clear liquid
Silane Content		99 %
Density	g/cm ³	0.88 (DIN 51757 @ 20 °C)
Flash Point	°C	42 (DIN EN ISO 3679)
Boiling Point	°C	237 (1013 hPa OECD 103)
Refractive Index		1.40 (DIN 51423)
Viscosity	mPa-s	1.9 (25 °C DIN 51562)

Betsilan Roadseal reacts with atmospheric moisture and/or water in the pores of construction materials, releasing alcohol. This reaction forms an active substance that significantly reduces the absorbency of treated concrete in the penetration zone, without blocking pores or capillaries. The treated material retains high water vapor permeability.

HANDLING & PROCESSING

Before applying Betsilan Roadseal allow the concrete to dry for at least 4 weeks to ensure the moisture has properly dissipated. The surface moisture content should be less than exceed 4 wt%. Surfaces to be treated must be clean and dry. Cleaning methods can include sandblasting or pressure washing.

During application the outside temperature and the temperature of the substrate should be within the range of +5°C to +30°C.

Apply Betsilan Roadseal to concrete using a low-pressure pump equipped with a wet fan-type spray nozzle. For smaller areas a brush can be used. Use the wet-on-wet method for application. Avoid forming puddles. Apply 2-3 coats ensuring the previous coat does not dry before the next is applied. Betsilan Roadseal's hydrophobic effect may begin within minutes.

For vertical surfaces the solution should flow downward approximately 40-50 cm as a clearly visible wet curtain. Let the solution flow freely without pressure against the material. For horizontal surfaces, Betsilan Roadseal should remain in contact with the substrate for at least 5 seconds.

Avoid applying on damp or wet surfaces. Do not use the product in adverse weather conditions such as rain or strong wind. Prevent direct contact between Betsilan Roadseal and bitumen. Compatibility with insulation materials should be tested.

DOSAGE

The amount and concentration of Betsilan Roadseal applied depend on the absorbency of the substrate and the desired penetration depth. Betsilan Roadseal must be used undiluted.

When sprayed onto concrete or reinforced concrete using a low-pressure pump the minimum application is 180-250 g/m² per layer. The number of layers depends on the absorbency of the surface typically 2-3 layers.



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STORAGE

Betsilan Roadseal can be stored at temperatures between 5 °C and +20 °C.

The product is flammable and must be kept away from direct sunlight open flames standing water and other sources of ignition Containers must be tightly sealed and protected from moisture

When stored under appropriate conditions in unopened original packaging the shelf life is 12 months

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 Roadseal (liquid) is available in 800 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.

MANUFACTURER CONTACT

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Surface protection products
Hydrophobic impregnation

Betsilan Roadseal

Penetration depth	2. class, ≥ 10 mm
Water absorption coefficient	$< 7,5$ % compared to untreated test piece
Water absorption coefficient	< 10 % after impregnation in alkali solution

Drying speed of the hydrophobizer	1. class > 30 %
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Dangerous substances	In accordance with 5.3
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NOTE: All reasonable precautions have been taken in the manufacture of Betsilan Roadseal products to ensure compliance with Betsilan Roadseal 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 Roadseal 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 Roadseal. 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.