

PRODUCT DATA SHEET

Sikagard[®]-700 S

Silane/Siloxane-based water repellent hydrophobic impregnation

DESCRIPTION

Sikagard[®]-700 S is a one part silane/siloxane-based water repellent impregnation for absorbent mineral-based substrates. It penetrates well into the open pores of the substrate, providing durable water repellency, while still allowing water vapour diffusion in both directions. Sikagard[®]-700 S complies with the requirements of EN 1504-2 for hydrophobic Impregnation (penetration depth class I).

USES

Sikagard[®]-700 S is used as water repellent and colourless hydrophobic impregnation on absorbent exposed materials such as concrete, cementitious rendering, concrete tiles, fibre cement, brickwork (clay and lime sand, non-vitrified), natural stone. Sikagard[®]-700 S can also be used as hydrophobic primer under solvent- and water-based protective coatings. Sikagard[®]-700 S is used as hydrophobic treatment for concrete in civil engineering or building concrete structures:

- Suitable for protection against ingress (Principle 1, method 1.1 of EN 1504-9),
- Suitable for moisture control (Principle 2, method 2.1 of EN 1504-9)
- Suitable for increasing the resistivity (Principle 8, method 8.1 of EN 1504-9)

Sikagard[®]-700 S is not intended for waterproofing under hydrostatic pressure, in permanent contact with water, or for below grade waterproofing. Do not use Sikagard[®]-700 S on visibly cracked surfaces; this product is not intended to seal cracks from moisture ingress.

CHARACTERISTICS / ADVANTAGES

- Reduction of capillary water absorption.
- Reduces efflorescence.
- Reduces dirt penetration into the pores.
- Improves thermal insulation.
- Can be overcoated with solvent- and water-based coatings.
- Higher durability and resistance than conventional silicone-based treatments.
- Does usually not change the appearance of the substrate.
- Reduces chloride ion ingress and movement.
- Does not act as a vapour barrier.

APPROVALS / STANDARDS

- CE-Certified as Hydrophobic Impregnation according to EN 1504-2

PRODUCT INFORMATION

Chemical Base	Siloxane/Silane blend in organic solvent.
Packaging	20 l pails and 194 l drums. Please refer to price list for local packaging variations.
Appearance / Colour	Colourless liquid
Shelf Life	12 months from date of production if stored in unopened, undamaged and original sealed packaging.
Storage Conditions	Store in dry and cool conditions. Protect from moisture.

Density	~ 0.8 kg/l (at +20 °C)	
Flash Point	Closed cup: ~30 °C (~86 °F)	
Viscosity	4 mPas (at +23 °C / 900 s ⁻¹)	(EN ISO 3219)

TECHNICAL INFORMATION

Penetration Depth	6 mm (class I)	
Drying rate coefficient	~110 %	(EN 13579)
Water penetration after capillary absorption	compared to untreated sample	2.5 % (EN 13580)
	compared to untreated sample (after immersion in alkali solution)	8.2 %

APPLICATION INFORMATION

Consumption	300 – 500 g/m ² (375 – 625 ml/m ²) per coat for normally absorbent substrate. In order to ensure durability, a minimum of 2 coats must be applied.
Ambient Air Temperature	+5 °C min. / +30 °C max.
Substrate Temperature	+5 °C min. / +30 °C max.
Substrate Moisture Content	< 5 - 6 % when measured with Tramex method
Waiting Time / Overcoating	When overcoating with Sikagard [®] solvent- or water-based coatings, wait at least 5 hours after application of the hydrophobic impregnation. In case of overcoating with water- or solvent-based polymer paints, please contact the paint manufacturer for details.

SYSTEM INFORMATION

System Structure	1–2 x Sikagard [®] -700 S.
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BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Cannot be overcoated with limewash or cement paint.
- If there are strict aesthetic requirements (often when used on natural stone), it is recommended to perform preliminary tests as on some stones a slight darkening of the surfaces may result.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Minimum age of concrete: at least 4 weeks.
The substrate must be clean, dry and free of grease, dust, oil, efflorescence and existing paint coatings. Substrates that have been exposed to different weather conditions, such as when renovating old structures, require careful preliminary treatment. Soot, dust deposits, efflorescence and moss must be completely removed by washing with suitable detergents, light blast-cleaning or careful steam jet cleaning. Residues of paint and loose particles must be removed. Cracks in concrete of more than 200 µm must be repaired prior to application of the Product. Building components not to be coated (e.g. aluminium frames, windows etc.) need to be protected from contact with the Product. In case of splashes, clean immediately using an additional solvent if necessary. Best results are obtained on dry, very absorbent substrates. The substrate must look dry with no damp patches.

MIXING

Sikagard[®]-700 S is supplied ready for use and must not be thinned.

APPLICATION

Sikagard®-700 S is applied using low pressure spray, brush or roller, working from bottom up taking care not to let the product run. Apply subsequent coats “wet on wet”.

CURING TREATMENT

Sikagard®-700 S does not require any special curing but must be protected from rain for at least 3 hours at +20 °C.

CLEANING OF TOOLS

Clean all tools and application equipment with white spirit immediately after use.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika’s current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika’s recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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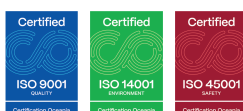
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Product Data Sheet

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