

PRODUCT INFORMATION

SOLID SILANE 40

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Manufacturer's Code: RPSS40

Updated: 01/01/2008

Product Name: SOLID SILANE 40

Description: SOLID SILANE 40 is a water-based non-drip thixotropic silane cream for use as a water repellent impregnant for masonry substrates. The silane cream is a new concept that overcomes the problems associated with liquid silane/siloxane sealer. SOLID SILANE 40 can be applied to overhead and vertical surfaces without run off. The high penetration depths achieved with SOLID SILANE 40 are due to the low volatility of the silane cream, combined with the long contact time with the surface. Unlike the liquid sealer, one coat of SOLID SILANE 40 is generally enough to achieve similar penetration depths compared to several coats of the liquid sealer. Application costs can thus be significantly reduced.

Recommended Uses: SOLID SILANE 40 is a general purpose water repellent for various masonry including concrete, stone, bricks and pavers, reducing water penetration, efflorescence and harmful salts migration. The important features of SOLID SILANE 40 include:

- Water-based cream containing more than 40% active silicones.
- Ability to deeply penetrate into dense concrete.
- Does not splash or run off uncontrollably on overhead and vertical surfaces.
- No pollution of waterways and atmosphere due to no run off and low evaporation.
- Easy quality control by measuring the wet film thickness.
- Permanently bonds to the concrete with no peel or blister.
- Forms UV, alkali stable and durable hydrophobic zone within concrete surface.
- Significantly reduces water penetration and harmful salts such as chloride ions.
- Does not significantly change the surface appearance and vapour permeability.

Use Instructions: Application

If used for reinforced concrete, it is imperative that USE SPECIFICATION FOR THE IMPREGNATION OF CONCRETE WITH SOLID SILANE is read and strictly followed during application. SOLID SILANE 40 should be applied to dry masonry surfaces preferably by high pressure airless spray equipment. It should be operated at the lowest possible pressure with a high pressure spray tip to avoid high shearing which can cause the cream to break down. It can be applied by brush or roller for smaller areas. Do not splash or spray the product onto any area you do not wish to treat. If splashing occurs the product should be removed with a damp cloth immediately

Application rate

One coat at 200 to 400 ml/ m² is usually sufficient for any masonry substrate. However, the application rate varies depending on the impregnation depth required and the condition of the masonry substrate. It may be of the order of 2-5 m² per litre per coat or could be out of this range significantly. In order to ensure satisfactory performance, enough silane cream should be delivered on to the surface. A maximum wet film thickness may be controlled so that the wet cream should stay on the surface until it is absorbed by the substrate without run off. If the substrate is of high density or less permeable, no more than 200ml/m² of silane cream may be applied per coat. A second coat may be required after the first coat is dry to ensure a satisfactory penetration depth, although the second coat is generally unnecessary.

After application

The initial water repellency will develop after the surface is dry. Full curing may take up to 7 days. Avoid heavy traffic or any staining for at least 24 hours. Wash the equipment in water.

Pilot testing and quality control

Due to the variation of masonry materials, it is strongly recommended that a pilot test on a small area on site MUST be conducted prior to application. The quality control is also recommended after the application to ensure the impregnation performance is as required. Please refer to the USE SPECIFICATION FOR THE IMPREGNATION OF CONCRETE WITH SOLID SILANE for details.

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| Typical Data: | Appearance: | White Cream |
| | Active ingredient: | >40% |
| | Specific Gravity: | 0.845 g/ml at 20 °C |
| | pH value: | 7-8 |
| | Solubility in water: | miscible in water |
| | VOC content: | Nil |
| | Flash point: | >61°C |

Important Note: SOLID SILANE 40 penetrates into the capillaries and renders the masonry surface water repellent while still leaving most of the capillaries open to allow water vapour to pass through. It reduces water absorption by capillary action. However, it has a limited resistance to water penetration particularly under prolonged contact or hydrostatic pressure. Therefore, in some cases where the substrate is very permeable or there is extreme wind driven rain, resistance to water penetration, efflorescence or harmful salts such as chloride ions, may not be adequate.

Handling & Storage: SOLID SILANE 40 is a hazardous material. Refer to the material safety data sheet for safe handling. Good industrial hygiene procedures should be followed when using this product. Vapour inhalation and skin or eye contact should be avoided by wearing proper protection. Wear an air-purifying respirator if there is a risk of exposure to high vapour concentrations. Wash hands after handling. The product should be stored in closed containers in a cool dry place away from any fire and ignition sources. The product has a shelf life of 6 months in a sealed original container under 25°C.

Use with sufficient ventilation away from any fire or ignition sources!

Keep out of reach of children!

Packaging: SOLID SILANE 40 is available in 5 and 20 litre plastic drums.

Disclaimer:

The information given in this data sheet is based on many years of experience and is correct to the best of our knowledge. As the storage, handling and application of this material is beyond our control; we can only be responsible for the quality of our product at the time of dispatch. We reserve the right to alter certain product parameters within the spectrum of properties in order to keep abreast of technical advances. It is the responsibility of the end user to determine the suitability of this material for any particular application.