

PRODUCT DATA SHEET

Sikagard[®]-704 MY

SILANE/SILOXANE BASED REACTIVE WATER REPELLENT IMPREGNATION

DESCRIPTION

Sikagard[®]-704 MY is a one component, low viscosity, reactive impregnation for concrete and cementitious substrates based on a mixture of highly active silanes & siloxanes.

USES

Sikagard[®]-704 MY is used as water-repellent impregnation (hydrophobic treatment) for absorbent substrates such as concrete in civil engineering or building concrete structures subjected to heavy stress due to freeze and thaw cycles and de-icing salts, and chloride attack in marine environment.

- Suitable for protection against ingress
- Suitable for moisture control
- Suitable for increasing resistivity by limiting moisture content

CHARACTERISTICS / ADVANTAGES

- Good penetration
- Economic and easy use
- Reduces capillary water absorption, protects against driving rain and splashing on vertical areas
- Reduction of absorption of aggressive or deleterious agents dissolved in water (i.e. de-icing salts or chloride from marine environment)
- No significant change in water vapour permeability
- Increases the resistance of concrete to freeze and thaw cycles and de-icing salts
- Resistant to sea water
- Ready to use

PRODUCT INFORMATION

Composition	Blend of silanes and siloxanes	
Packaging	<ul style="list-style-type: none"> ▪ 20 kg pail ▪ 180 kg drum 	
Appearance / Colour	Water like liquid, colourless	
Shelf Life	12 months from date of production	
Storage Conditions	Store in unopened, undamaged and original sealed packaging in dry and cool conditions between +10 °C to +35 °C . Protect from moisture and direct sunlight.	
Density	0.8–0.9 kg/l (at 20 °C)	(SK-042, Hydrometer)
Volatile organic compound (VOC) content	~725 g/l	
Viscosity	5 mPas (Rheomat RM 180, Parameter: T = 23 °C, D = 900s ⁻¹)	

TECHNICAL INFORMATION

Resistance to Alkalinity	< 10 %	(EN 13580)
Penetration Depth	< 10 mm	(EN 14630)
Water Absorption	< 7.5 %	(EN 13580)
Drying Rate Coefficient	> 30 %	(EN 13579)

APPLICATION INFORMATION

Consumption	Dependent on absorbency of the substrate as well as on the required penetration depth: typically ~150 g/m ² per coat 2-3 coats applied "wet on wet"
Ambient Air Temperature	+5 °C min. / +40 °C max.
Substrate Temperature	+5 °C min. / +35 °C max.
Waiting Time / Overcoating	Can be overcoated with water and solvent based polymer paint. Sikagard®-704 MY can be used as a water repellent primer under Sikagard® protective coatings. Penetration of water is thus prevented at possible weak spots or in the event of damage to the top coat and the risk of consequential damages such as paint flaking can be reduced. Overcoating time: minimum 5 hours, maximum 1 week. * If other products is used for the top coat, contact the supplier of the product for specific recommendations. It is recommended to carry-out site trials to determine the suitability of the top coat.
Curing Treatment	Sikagard®-704 MY does not require any special curing but must be protected from rain for at least 3 hours at +20 °C.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate must be free from dust, dirt, oil, efflorescence and existing paint coatings. Cracks in concrete more than 200 microns wide must first be repaired prior to application of the hydrophobic treatment. Cleaning is best done by light blastcleaning, steam cleaning or water pressure (~150 bars). Best results are obtained on dry, very absorbent substrates. The substrate must look dry with no damp patches.

MIXING

Sikagard®-704 MY is supplied ready for use and must not be diluted.

APPLICATION

Sikagard®-704 MY is applied using a low-pressure spray, brush or roller, in a single pass from top to bottom taking care not to let the product run. Apply subsequent coats wet on wet. On horizontal surface, avoid excessive ponding.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use.

IMPORTANT CONSIDERATIONS

- Best results are achieved when Sikagard®-704 MY is applied to concrete that is more than 28 days. However, due to its high alkali resistance, it is possible to apply Sikagard®-704 MY at a very early age. Site trials is recommended for early application.
 - Protect glass surfaces and aluminium frames (there is a possibility of surface staining / damage).
 - Areas not to be impregnated such as window panes need to be protected from being accidentally contaminated with Sikagard®-704 MY.
 - Sikagard®-704 MY can damage some coatings and bituminous products.
 - Sikagard®-704 MY can lead to darkening of concrete, apply test areas first.
 - Sikagard®-704 MY cannot be overcoated with lime-wash or cement paint.
- Refer to the latest Method Statement for detailed information regarding surface preparation and application method.

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.

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.

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.

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.

Sika Kimia Sdn. Bhd.

Lot 689, Nilai Industrial Estate, 71800 Nilai
Negeri Sembilan D.K., Malaysia
Phone: +606-7991762
Fax: +606-7991980
e-mail: info@my.sika.com
Website: www.sika.com.my



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