

## PRODUCT DATA SHEET

# Sikagard<sup>®</sup>-701 W

### Micro-emulsion Water Repellent Impregnation

#### DESCRIPTION

Sikagard<sup>®</sup>-701 W is a water dilutable impregnation based on aqueous solution of methyl siliconates. It penetrates well into the open pores of the substrate, providing water repellency, while still allowing water vapour diffusion in both directions. Suitable for use in hot and tropical climatic conditions.

#### USES

As an impregnation for mineral substrates including concrete and cementitious render, natural and reconstituted stone, aerated concrete, brickwork (non vitrified brick), fibre cement, mineral paint coatings etc. against driving rain and water ingress.

#### CHARACTERISTICS / ADVANTAGES

- Excellent penetration
- Economic and easy to use
- Reduces capillary water absorption, protection against driving rain and water ingress on vertical areas
- Reduces absorption of water borne contaminants (e.g. de-icing salts, chlorides, etc.)
- No change in water vapour permeability
- Non film forming
- Water dilutable
- Low packaging waste disposal, as supplied as a concentrate

#### PRODUCT INFORMATION

<b>Composition</b>	Aqueous solution of methyl siliconates
<b>Packaging</b>	5 L can, 20 L can, 200 L drum and 1000 L flowbin
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	Store in original, unopened, sealed and undamaged packaging in dry condition at temperatures between +5 °C and +30 °C. Protect from moisture and direct sunlight.
<b>Appearance and colour</b>	Colorless liquid
<b>Density</b>	~1.01 kg/l (at +23°C)

#### SYSTEM INFORMATION

<b>System structure</b>	2 -3 x Sikagard <sup>®</sup> -701W
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## APPLICATION INFORMATION

<b>Consumption</b>	Dependent on the absorbency of the substrate and the required penetration depth, ~150 g/m <sup>2</sup> (diluted) per coat. Apply 2 -3 coats "wet on wet".
<b>Ambient air temperature</b>	+8°C min. / +30°C max.
<b>Substrate temperature</b>	+8°C min. / +30°C max.
<b>Substrate moisture content</b>	< 5% when measured with Tramex method
<b>Curing time</b>	Sikagard®-701 W does not require any special curing but must be protected from rain for at least 3 hours at +20°C
<b>Waiting time to overcoating</b>	Can be overcoated with water/solvent based polymer paints - contact the proposed paint manufacturer for details. When overcoating with Sikagard® or solvent based coating, wait at least 5 hours after the hydrophobic impregnation and maximum one week. Sikagard®-701 W can be used as a water based primer under Sikagard® or solvent based coating. Penetration of water is thus prevented, even if the top coat is damaged.

## BASIS OF PRODUCT DATA

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

## IMPORTANT CONSIDERATIONS

- Minimum age of concrete or mortar: at least 4 weeks.
- Sikagard®-701 W cannot be overcoated with lime-wash 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. Always conduct preliminary testing on a sample surface.
- Sikagard®-701 W is not intended for waterproofing under hydrostatic pressure, in permanent contact with water, or for below ground waterproofing.
- Sikagard®-701 W is not intended to seal visible cracks from moisture ingress.
- Building components not to be coated (example aluminium frames, windows etc.) need to be protected from contact with Sikagard®-701 W. In case of splashes, clean immediately.
- The water repellent effect is not fully effective on horizontal surfaces.
- Only dilute (thin) as much material as can be used within one working day.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Free of dust, oil, efflorescence and existing paint coatings. Cracks in concrete of more than 200 µm must be repaired prior to application of the hydrophobic treatment. Cleaning is best achieved by brushing with suitable detergents or by light blastcleaning or steam cleaning etc. Best results are obtained on dry, very absorbent substrates. The substrate must look dry with no damp patches.

### MIXING

Sikagard® -701W is diluted (thinned) with clean water and then thoroughly stirred.

Dilution ratio: Sikagard®-701 W : Water = 1 : 3

### APPLICATION

Sikagard®-701 W is applied using low pressure spray, brush or roller, in a single pass, working from top to bottom taking care not to let the product run. Apply subsequent coats "wet on wet".

### CLEANING OF EQUIPMENT

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

Hardened / cured material can only be mechanically removed.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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 NORTHERN GULF

Bahrain / Kuwait  
Tel: +973 177 38188  
info@bh.sika.com  
gcc.sika.com

### SIKA SOUTHERN GULF

UAE / Oman / SIC  
Tel: +971 4 439 8200  
info@ae.sika.com  
gcc.sika.com

### Sika Saudi Arabia

Riyadh / Jeddah / Dammam  
Tel. +966 11 217 6532  
info@sa.sika.com  
gcc.sika.com



ISO 9001: Sika UAE LLC,  
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Sika International Chemicals LLC,  
ISO 45001: Sika UAE LLC,  
Sika Gulf B.S.C. (C),  
Sika International Chemicals LLC.

All products are supplied under  
a management system certified  
to conform to the requirements  
of the quality, environmental  
and occupational health &  
safety standards: ISO 9001,  
ISO 14001 and ISO 45001.

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