

## PRODUCT DATA SHEET

# Sikagard<sup>®</sup>-701 W

## Micro-emulsion Water Repellent Impregnation

### DESCRIPTION

Sikagard<sup>®</sup>-701W 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

Composition	Aqueous solution of methyl siliconates
Packaging	5 Kg and 20 Kg
Appearance / Colour	white/opaque liquid
Shelf life	12 months from date of production if stored in undamaged and unopened, original Life
Storage conditions	sealed packaging, in cool and dry conditions.
Density	(at +20°C) ~ 1.000 kg/l
Flash point	~ 27°C

## TECHNICAL INFORMATION

Permeability to water vapour	Water Vapor Transmission	100 %
Water absorption	Less than 1 %	
Chloride ion diffusion resistance	90%	

## SYSTEM INFORMATION

System structure	2 -3 x Sikagard® -701W.
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## APPLICATION INFORMATION

Consumption	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".
Ambient air temperature	+8°C min. / +30°C max.
Substrate temperature	+8°C min. / +30°C max.
Substrate moisture content	<b>Substrate Humidity</b> 5% max.
Waiting time to overcoating	<ul style="list-style-type: none"><li>Can be overcoated with water / solvent based polymer paints -contact the paint Overcoatability manufacturer for details.</li><li>Sikagard®-701W can be used as a water based primer under Sikagard® or SikaColor® Emulsion or solvent based coating. Penetration of water is thus prevented even if the top coat is damaged.</li><li>Waiting time: minimum 5 hours, maximum 1 week.</li></ul>
Curing treatment	Sikagard® -701W does not require any special curing but must be protected from rain for at least 3 hours at +20°C.

## 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

- Minimum age of concrete or mortar: at least 4 weeks.
- Building components (e.g. window frames) which still need to be painted must be protected from contact with Sikagard® -701W.
  - Test on a sample surface before use.
  - The water repellent effect is not fully effective on horizontal surfaces.
  - 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.

## ECOLOGY, HEALTH AND SAFETY

### Ecology

Must be disposed of as special waste according to local requirements.  
Residues of material must be removed according to local regulations.  
Fully cured material can be disposed of as household waste under agreement with the responsible local au-

thorities.

### Transport

Non-hazardous

### Safety Precautions

Product contains volatile, flammable liquids, observe relevant regulations concerning health and safety at work. Keep away from ignition sources, refrain from smoking. Use only in well ventilated spaces. Risk of serious damage to eyes. Wear protective goggles and gloves made of appropriate plastic material.

### Toxicity

Non-Toxic

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Free of dust, dirt, oil, efflorescence and existing paint coatings.  
Cracks in concrete of more than 200 microns must be repaired prior to application of the hydrophobic treatment.

### MIXING

Thinning:  
Sikagard® -701W can be thinned with clean water up to 1:3 and then thoroughly stirred.

## APPLICATION

Sikagard® -701W 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".

### Pot Life

Only thin as much material as can be used in one working day.

## 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

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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