

## PRODUCT DATA SHEET

# Sikagard<sup>®</sup>-703 AE

Silane and siloxane based water repellent impregnation

### DESCRIPTION

Sikagard<sup>®</sup>-703 AE is a general purpose, solvent free, one part, water based impregnation and priming of mineral surfaces, based on silane and siloxane mixture. 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

Sikagard<sup>®</sup>-703 AE is used as water repellent and colourless protective surface treatment on absorbent exposed materials such as non-structural concrete, cementitious rendering, concrete tiles, fibre cement, brickwork, natural stone, all with highly absorbent properties. It can be used for mass hydrophobation of non-load bearing concrete products.

Sikagard<sup>®</sup>-703 AE can be used for in plant hydrophobation of building materials made of clay, aerated concrete, sand, lime brick, mineral fibers and light-weight aggregate.

### CHARACTERISTICS / ADVANTAGES

- Reduction of capillary water absorption
- Reduces efflorescence
- Reduces dirt penetration into the pores
- Recoatable with solvent based and dispersion coatings
- Provides higher durability of substrate
- Provides good depth of penetration
- Provides effective beading effect
- Water based and environmentally compatible

### PRODUCT INFORMATION

<b>Composition</b>	Silane / Siloxane mixture
<b>Packaging</b>	25 L can and 200 L drum
<b>Appearance / Colour</b>	Milky, white liquid
<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>Density</b>	~1.0 kg/l (+23 °C)
<b>System structure</b>	1 - 2 coats of Sikagard <sup>®</sup> -703 AE

<b>Consumption</b>	0.15 - 0.25 L/m <sup>2</sup> per coat for normally absorbent substrate. In order to ensure durability, it is recommended to apply min. of 2 coats . Some substrates will require higher consumption than indicated above. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc..
<b>Ambient air temperature</b>	+5 °C min. / +35 °C max.
<b>Substrate temperature</b>	+5 °C min. / +35 °C max.
<b>Substrate moisture content</b>	< 5 - 6 % when measured with Tramex method
<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.

## 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®-703 AE is supplied ready for use and should not be thinned.

### APPLICATION

Sikagard®-703 AE is applied by using low pressure spray, brush or roller, working from bottom up, taking care not to let the product run. On horizontal application, avoid ponding on the surface.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use.  
Hardened / cured material can only be mechanically removed.

## IMPORTANT CONSIDERATIONS

- Not suitable for less absorbent, dense substrates e.g. dense natural stone, limestone, marble, structural concrete, etc.
- Does not act as a vapor barrier.
- 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.
- Sikagard®-703 AE 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®-703 AE. In case of splashes, clean immediately using an additional solvent if necessary.

## 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.

## 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 the exact product data and uses.

## 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.

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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 OHSAS  
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