

# PRODUCT DATA SHEET

## Sikagard<sup>®</sup>-701 W

SOLVENT-FREE, SILOXANE EMULSION CONCENTRATE

### PRODUCT DESCRIPTION

Sikagard<sup>®</sup>-701 W is a solvent-free concentrate of silane modified siloxane emulsion. It must be diluted and the diluted liquid solution forms a water and chloride-ion repellent impregnation specifically formulated to seal absorbent cementitious surfaces and other masonry substrates.

### USES

- When diluted, use Sikagard<sup>®</sup>-701 W as a colorless, non-vapor-barrier, water and chloride ion-repellent impregnation for absorbent materials.
- Treat concrete bridges, roadways, runways, parapet walls, precast, beams, columns, curbing, retaining walls, pavers, etc.
- Treat both new and existing structures.
- Treat masonry brickwork, stucco, etc.
- Porous architectural curtain wall panels.
- Use on steel-reinforced structures to reduce the corrosion and latent damage potential of chlorides.

### CHARACTERISTICS / ADVANTAGES

Sikagard<sup>®</sup>-701 W is both an economical and simple-to-use sealer. Because of its unique ability to decrease water and chloride intrusion, Sikagard<sup>®</sup>-701 W helps reduce the danger of rebar corrosion.

Sikagard<sup>®</sup>-701 W:

- Meets the standards of acceptability for concrete sealers established in NCHRP Report #244.
- Enhances concrete integrity.
- Reduces efflorescence.
- Improves resistance to frost and de-icing salts (chloride ion).
- Reduces dirt penetration.
- Does not act as a vapor barrier.
- May be applied to alkaline substrates.
- Will not degrade under UV exposure.

### PRODUCT INFORMATION

<b>Packaging</b>	5 gal. pail.
<b>Appearance / Color</b>	white/opaque liquid
<b>Shelf Life</b>	1 year in original, unopened containers (undiluted).
<b>Storage Conditions</b>	Store dry at 40–95 °F (4–35 °C). Condition material to 65–75 °F (18–24 °C) before using. Protect from freezing.
<b>Flash Point</b>	212 °F
<b>Solid Content</b>	50 % (silane modified siloxane polymer)

<b>Active Content</b>	Active level: 10 % Solids: 10 %	(ASTM D-5095) % Non volatiles
<b>Volatile organic compound (VOC) content</b>	211 g/l 46 g/l as diluted	
<b>Viscosity</b>	Approximately 5–20 cps.	

## TECHNICAL INFORMATION

<b>Permeability to Water Vapor</b>	Water Vapor Transmission	100 %	NCHRP 244 Series II
<b>Water Absorption</b>	Water Absorption	0.97%	Federal Spec SSW - 110C
	Reduction in Water Absorption	91%	NCHRP 244 Series II
<b>Rapid Chloride Permeability</b>	Reduction in Cl ion intrusion	90%	NCHRP 244 Series II

## APPLICATION INFORMATION

<b>Coverage</b>	100–250 ft <sup>2</sup> /gal., (diluted concentrate) depending on porosity of substrate. For proven results against chloride-ion intrusion, 125 ft <sup>2</sup> /gal. is recommended.
-----------------	--

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

Before applying Sikagard®-701 W, be sure surface is clean and sound. The best impregnation is achieved on a dry, very absorbent substrate. Remove all grease, curing compounds, surface treatments, coating, oils, etc.

**Preparation Work:** Concrete and masonry surfaces, sandblast, high pressure water blast or use other mechanical means.

### MIXING

Mix Ratio: 1 gal: 4 gal. tap water yields 5 gals. of sealer. Dilute Sikagard®-701 W concentrate with tap water in an appropriately sized mixing container. Mix with a low speed (400–600 rpm) drill with Sika paddle or comparable drum mixer until uniformly blended. Make sure paddle is completely covered so as not to entrain air. For best results, Sikagard®-701 W should be remixed if unused 24 hours after blending with water.

### APPLICATION

Apply by roller, brush (horizontal surfaces), or spray. Any pooling of water repellent indicates overdosing on a dense substrate while rapid absorption indicates a porous substrate. Variations in concentration down to 8:1 for dense substrates or coverage area, and/or multiple wet-on-wet applications for porous substrates may be utilized to achieve optimal substrate treatment. Preliminary site test application is recommended to determine effective coverage and performance.

**Maximum water repellency is generally realized in 72 hours, but may take longer depending on surface and atmospheric conditions.**

### CLEANING OF TOOLS

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

### LIMITATIONS

- Adjacent surfaces such as window frames, glass, stainless steel, aluminum, etc., must be masked before application.
- Do not apply at a temperature below 40 °F.
- Do not apply when substrate temperature exceeds 120 °F.
- Material is not recommended for below-grade waterproofing.
- Do not apply through standing water.
- Material is not intended to seal visible cracks or crevices from moisture intrusion.
- Material is not intended for waterproofing under hydrostatic pressure.
- Performance and penetration depth are dependent upon the surface composition.
- Do not use on green concrete.
- **When over-coating:** an on-site adhesion test is essential to determine actual compatibility.
- Sikagard® 701W is not a carbonation barrier.

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

**Sika Corporation**  
201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)

**Sika Mexicana S.A. de C.V.**  
Carretera Libre Celaya Km. 8.5  
Fracc. Industrial Balvanera  
Corregidora, Queretaro  
C.P. 76920  
Phone: 52 442 2385800  
Fax: 52 442 2250537



Product Data Sheet  
Sikagard®-701 W  
November 2018, Version 01.01  
020303010020000001

Sikagard-701W-en-US-(11-2018)-1-1.pdf

**BUILDING TRUST**

