

Product Data Sheet

Edition 12.07.2015

Sikagard® 701W

Sikagard® 701W

Solvent-free, siloxane emulsion concentrate

Description	Sikagard® 701W 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.
Where to Use	<ul style="list-style-type: none"> ■ When diluted, use Sikagard® 701W 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.
Advantages	<p>Sikagard® 701W is both an economical and simple-to-use sealer. Because of its unique ability to decrease water and chloride intrusion, Sikagard® 701W helps reduce the danger of rebar corrosion.</p> <p>Sikagard® 701W:</p> <ul style="list-style-type: none"> ■ 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.
Coverage	100-250 ft ² /gal., (diluted concentrate) depending on porosity of substrate. For proven results against chloride-ion intrusion, 125 ft ² /gal. is recommended.
Packaging	5 gal. pail.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	1 year in original, unopened containers (undiluted).	
Storage	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. Protect from freezing.	
Color	white/opaque liquid	
Mix Ratio	1 gal: 4 gal. tap water yields 5 gals. of sealer.	
Viscosity	Approximately 5-20 cps.	
% solids	50% (silane modified siloxane polymer)	
% Non volatiles (ASTM D-5095)	Active level: 10%	Solids: 10%
VOC	211 g/l 46 g/l as diluted	
Flash Point	212°F	
	NCHRP244 Report Series 2 Test	
Reduction in Water Absorption	91%	
Water Vapor Transmission	100%	
Reduction in Cl ion intrusion	90%	
Federal Spec SSW - 110C	Water absorption	0.97%



Sika®

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA 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 DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

How to Use

Surface Preparation

Before applying Sikagard® 701W, 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

Dilute Sikagard® 701W 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® 701W 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.**

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.

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA 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 DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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

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

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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 shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **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 SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING 201-933-8800.**

Visit our website at usa.sika.com

1-800-933-SIKA NATIONWIDE

Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 800-933-7452
Fax: 201-933-6225

Sika Canada Inc.
601 Delmar Avenue
Pointe Claire
Quebec H9R 4A9
Phone: 514-697-2610
Fax: 514-694-2792

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



Sika and Sikagard are registered trademarks. Printed in Canada.

