Sikagard® 670W Clear
Water-based, 100% acrylic, protective coating

Description
Sikagard 670W Clear is a clear, water-based acrylic protective coating. Sikagard 670W Clear prevents moisture ingress, is water vapor permeable, and provides an excellent carbonation barrier.

Where to Use
Protective coating for exposed aggregate surfaces, concrete, masonry and brick. Application on vertical, overhead and Horizontal (non-traffic bearing) surfaces.

Advantages
- Provides resistance to weathering, frost and de-icing salts.
- Improves look of structure without changing appearance.
- Excellent adhesion.
- High UV light resistance.
- Excellent resistance to carbon dioxide and other aggressive gas diffusion.
- Water vapor permeable (breathable).
- Easy application by brush, roller or spray.
- Resistant to dirt pick-up.
- Prevents ingress of chlorides.
- Cost-effective protection.

Coverage
Theoretical per coat: 160 sq. ft./gal. Wet film thickness: 10 mils. Dry film thickness: 2.3 mils. All coverage is dependent on porosity of substrate. In addition, allowance must be made for surface profile. Unavoidable variation in application thickness, loss and waste. Normal coating system is one coat minimum at a total nominal dry film thickness of 2.3 mils. The total number of coats depends on the porosity of the substrate. On very porous substrates, two coats will typically be required.

Packaging
5 gallon, re-closable plastic pails.

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

### Shelf Life
1 year in original, unopened container.

### Storage Conditions
Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. Protect from freezing. If frozen, discard.

### Pot Life
Indefinite, provided proper care is taken in protecting the system from moisture, freezing, contamination, or evaporation.

### Solids Content
23% by volume

### Viscosity
117-123 ku

### VOC Content
193 g/L

### Waiting and Drying Times at 2.3 mils, Dry

<table>
<thead>
<tr>
<th>Between Coats</th>
<th>Rain Resistant After/Final Drying</th>
</tr>
</thead>
<tbody>
<tr>
<td>45°F (7°C) approx. 70 min.</td>
<td>approx. 3 hours</td>
</tr>
<tr>
<td>68°F (20°C) approx. 60 min.</td>
<td>approx. 1 hour and 15 min.</td>
</tr>
<tr>
<td>85°F (30°C) approx. 15 min.</td>
<td>approx. 1 hour</td>
</tr>
</tbody>
</table>

### Water Resistance (Cure Time = 1, 3, and 7 days) at 2.3 mils, Dry

- ASTM D-2247: very good resistance to whitening (ASTM score = 8, where 10 is perfect)
- ASTM D-714: No blisters (ASTM score = 10, where 10 is none)

### Moisture Vapor Permeability (ASTM D-1653) at 2.3 Mil, Dry
7.72 perms

### Water Spotting (Tested at 3 hr., 1, 2, 3, and 7 days)

- ASTM D-1848: Very good resistance to whitening (ASTM score = 8, where 10 is perfect)

### Water Vapor Transmission (at 2.3 mils=55.2 microns dry film thickness)

- $\mu$ - value $H_2O$ (diffusion coefficient) = 10,300
- $Sd$ $H_2O$ (equivalent air thickness) = 6 ft. (1.70 m.)

### Carbon Dioxide Diffusion (at 2.3 mils=55.2 microns dry film thickness)

- $\mu$ - value $CO_2$ (diffusion coefficient) = 631,000
- $Sd$ $CO_2$ (equivalent air thickness) = 226 ft. (69 m.)
- $Sc$ (equivalent concrete thickness) = 7 in. (17 cm.)
Construction

How to Use

Surface Preparation
All surfaces to be coated must be dry, clean, sound and frost-free with curing compound residues and any other foreign matter removed. An open textured sandpaper-like surface is ideal (CSP 3 as per ICRI guidelines). Where necessary, surfaces should be prepared mechanically by blast cleaning or high pressure waterjetting. Bugholes, cracks or irregularities of substrate should be filled and leveled with SikaTop, Sika MonoTop leveling mortar as appropriate.

Mixing
Stir thoroughly to ensure uniformity using a low speed (400-600 rpm) drill and Sika paddle.

Application
Any areas of glass or other surfaces should be masked. Recommended application temperatures (ambient and substrate) 45°-95°F (5°-35°C). Sikagard 670W Clear can be applied by brush, roller, or spray over entire area moving in one direction. Sikagard 670W Clear is usually applied using a short nap roller. Allow a minimum of 60 minutes prior to re-coating. At lower temperatures and high humidity, waiting time will be prolonged. At higher temperatures, work carefully to maintain a 'wet' edge. As with all coatings, jobsite mock-ups should always be completed to confirm acceptability of workmanship, material and aesthetics.

Limitations
- Not designed for use as a traffic-bearing surface.
- Substrate must be dry prior to the application. Allow sufficient time for the substrate to dry after rain or other inclement conditions, as this could cause bonding problems. A white haze may develop if moisture is trapped behind the coating.
- Minimum age of normal concrete prior to the application is 14 days, depending on curing and drying conditions. Substrate must be strong enough to properly prepare by mechanical means, achieving a sandpaper-like surface (CSP 3 as per ICRI guidelines).
- Sikagard 670W Clear should not be applied at relative humidities greater than 90%, or if rain is forecast within the specified rain resistance period.
- Do not thin.
- Do not apply if the ambient and substrate temperature are within 5°F (3°C) of the dew point temperature.
- Minimum age of SikaTop or Sika MonoTop thin layer renderings is 3 days prior to the application of Sikagard 670W Clear.
- Do not use over moving cracks.
- Product must be protected from freezing. If frozen, discard.
- During application, regular monitoring of wet film thickness and material consumption is advised to ensure that the correct layer thickness is achieved.
- When over-coating existing coatings, compatibility and adhesion testing is recommended.
- Do not store Sikagard 670W Clear in direct sunlight for prolonged periods.

Caution

Warning
Avoid breathing vapors. Use only with adequate ventilation. May cause respiratory irritation and headaches.

Irritant
Skin, eye, and respiratory irritant; avoid contact. Use of safety goggles and chemical resistant gloves is recommended. Remove contaminated clothing.

First Aid
In case of eye contact, flush with water for 15 minutes, contact physician immediately. For skin contact, wash skin with soap water. For respiratory problems, remove person to fresh air. Wash clothing before re-use.

Spill Clean Up
Confine spill, ventilate closed areas, and collect with absorbent material. Dispose of in accordance with current, applicable, local, state, and federal regulations. Uncured material can only be removed mechanically.

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

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika’s current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika’s instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika’s control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at www.sikausa.com or by calling 800-933-7452. 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 Technical Data Sheet, product label and Material Safety Data Sheet which are available online at www.sikausa.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 Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. LIMITED WARRANTY: 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 Technical 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 APPL Y INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORIES FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE OR ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 800-933-7452
Fax: 201-933-0225

Sika Canada Inc.
601 Delmar Avenue
Pointe Claire
Quebec H9R 4A9
Phone: 514-697-2810
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

Visit our website at www.sikausa.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 and Sikagard are registered trademarks.
Printed in Canada.