Sikagard® 550W Elastocolor

Description
Sikagard® 550W Elastocolor is an elastomeric, crack-bridging, anti-carbonation, acrylic protective coating. Sikagard® 550W Elastocolor provides protection to reinforced concrete from the ingress of carbon dioxide and other aggressive gasses. It offers high resistance to chlorides and other waterborne salts and excellent UV light resistance. Sikagard® 550W Elastocolor will not act as a vapor barrier and will enhance the appearance of the structure.

Where to Use
Protective, crack-bridging coating for concrete, mortar, stucco, masonry, and exterior finishing systems subject to cracking/dynamic movement. For use on building and civil engineering structures subject to cracking or as the top coat in complete repair and protection systems.

Advantages
- Can bridge dynamically moving cracks.
- Excellent carbonation barrier.
- Vapor permeable.
- Provides resistance to weathering and frost.
- Crack bridging properties maintained at low temperatures.
- Excellent long term UV light resistance.
- Can be applied by brush, roller, or airless spray.
- Good color stability.
- Extremely resistant to dirt pick up and mildew.
- Non-flammable as a system.
- Easily maintained silk finish.

Coverage
Theoretical yield per coat: 100 ft²/gal/coat. Recommended ‘wet’ film thickness: 16 mils/coat. Recommended ‘dry’ film thickness: 8 mils/coat. Normal coating system is two coats at a total dry film thickness of 16 mils. Consumption is dependent on porosity of substrate. In addition, allowance must be made for surface profile, unavoidable variation in applied film thickness, loss and waste. Sikagard® Elastic Base Coat can be used as a first coat in a two coat system of Sikagard® 550W Elastocolor.

Packaging
5 gal. Hobbock.

Typical 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.

<table>
<thead>
<tr>
<th>Property</th>
<th>45°F (8°C)</th>
<th>68°F (20°C)</th>
<th>85°F (30°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelf Life</td>
<td>2 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>Store dry at 40°-95°F (4°-35°C) Condition material to 60°-75°F (15°-25°C) before using. Protect from freezing. If frozen discard.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colors</td>
<td>469 standard colors. Custom color-matching available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pot Life</td>
<td>Indefinite, provided proper care is taken in protecting the system from moisture, freezing, contamination, or evaporation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solids Content</td>
<td>by weight</td>
<td>62%</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>by volume</td>
<td>55%</td>
<td>17%</td>
</tr>
<tr>
<td>Smooth 550W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sikagard® 552W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Properties (ASTM D-412 modified after 21 days cure)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>200 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elongation at Break</td>
<td>625% at 73°F (23°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Strength at 0°F (-18°C)</td>
<td>1100 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elongation at Break at 0°F (-18°C)</td>
<td>225%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Waiting Time (between coats) and Curing Rates</td>
<td>24 hours</td>
<td>8 hours</td>
<td>2 hours</td>
</tr>
<tr>
<td>Sikagard® 552W Primer+Sikagard® 550W</td>
<td>12 hours</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td>Sikagard® 550W</td>
<td>12 hours</td>
<td>8 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>Rain resistant (at 75% R.H.)</td>
<td>24 hours</td>
<td>12 hours 6 hours</td>
<td></td>
</tr>
<tr>
<td>Water Vapor Diffusion (at 16 mils = 400 microns dry film thickness)</td>
<td>24 hours</td>
<td>12 hours 6 hours</td>
<td></td>
</tr>
<tr>
<td>µ - value H₂O (diffusion coefficient)</td>
<td>2.146</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SdH₂O (equivalent air thickness)</td>
<td>2.6 ft. (0.8 m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon dioxide diffusion (at 16 mils = 400 microns dry film thickness)</td>
<td>24 hours</td>
<td>12 hours 6 hours</td>
<td></td>
</tr>
<tr>
<td>µ - value CO₂ (diffusion coefficient)</td>
<td>214,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R (equivalent air thickness)</td>
<td>299 ft. (91 m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sc (Equivalent concrete thickness)</td>
<td>9 inches (23 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*accelerated weathering</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crack-Bridging (at 16 mils = 400 microns DFT)</td>
<td>30 mils (0.75 mm)</td>
<td>12 mils (0.3 mm)</td>
<td></td>
</tr>
<tr>
<td>Static (at -4°F/-20°C)</td>
<td>30 mils</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamic&gt;1000 cycles (at -4°F/-20°C)</td>
<td>12 mils</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moisture Vapor Permeability (ASTM E-96)</td>
<td>14.5 Perms</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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). Where necessary, surfaces should be prepared mechanically by blast cleaning or high speed pressure waterjetting. Allow adequate time for drying. Cracks, crevices, or cavities should be filled and leveled with Sikatop®, SikaRepair®, SikaQuick® or acrylic surface fillers as appropriate. Cracks 1/32” or greater should be routed and sealed with a polyurethane sealant before coating.

Priming:
All porous areas or concrete with excessive porosity should be primed using Sikagard® 552W Primer or SikaLatex® R to allow easy application of Sikagard® 550W Elastocolor.

Mixing
Stir the coating to ensure uniformity using a slow speed (400-600 rpm) drill and 1/2” jiffy style mixing paddle. To minimize color variation when using multiple units, blend two pails of Sikagard® 550W Elastocolor. Use one pail and maintain the second pail to repeat this procedure (boxing) for the entire application.

Application
Any areas of glass or other surfaces should be masked. Recommended application temperatures (ambient and substrate) 45°-95°F (7°-35°C). Sikagard® 550W Elastocolor can be applied by brush, roller, or spray over entire area moving in one direction. Allow a minimum of two hours 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, job site mock-ups should always be completed to confirm acceptability of workmanship, material and aesthetics.

NOTE: To achieve a dry film thickness of 16 mils, two coats should be anticipated. For maximum adhesion, (especially on porous substrates) the use of Sikagard® 552W is recommended. Sikagard® 552W primer can be applied by brush or roller. Brushing provides more even and pore free coats and better penetration.

Limitations
- Not designed for use as a traffic bearing surface.
- Substrates must be dry prior to application.
- Minimum age of concrete prior to application is 14 days, depending on curing and drying conditions (moisture content must be below 5%).
- Minimum age of Sikatop®, SikaRepair®, or SikaQuick® prior to application is three days, depending on curing and drying conditions (moisture content must be below 5%).
- Allow sufficient time for substrate to dry after rain or other inclement conditions.
- Protect from freezing. If frozen, discard.
- Sikagard® 550W Elastocolor should not be applied at relative humidity greater than 90%, or if rain is forecast within the specified rain resistance period.
- Maximum crack width 1/32”.
- During application, regular monitoring of the 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.
- When over-coating Sikaflex®, a prime coat of Sikagard® 550W Elastocolor Accent Base Coat may be necessary over the sealant to minimize dirt pick up on coated curing.
- Do not store Sikagard® 550W Elastocolor in direct sunlight for prolonged periods.
- Strong winds can cause shrinkage if material is applied at lower temperatures.
- Ensure that the primer is thoroughly dry before over-coating to prevent formation of bubbles and blisters, particularly in warmer weather.
- Not recommended for roofing.

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 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 Sikacure, 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 instructions 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 product use. SIKA DISCLAIMS ALL OTHER WARRANTIES EXPRESS OR IMPLIED 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 Sika’S TERMS AND CONDITIONS OF SALE AVAILABLE AT 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 Canada Inc.
601 DelMar Avenue
Pointe Claire
Quebec H9R 4A9
Phone: 514-697-2610
Fax: 514-694-2792

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

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, Sikatop and MonoTop are registered trademarks. Printed in Canada.