

PRODUCT DATA SHEET

Sikagard®-550 W CA Elastocolor

SIKAGARD® 550W ELASTOCOLOR IS AN ELASTOMERIC, CRACK-BRIDGING, ANTI-CARBONATION, ACRYLIC PROTECTIVE COATING

PRODUCT DESCRIPTION

Sikagard®-550 W CA Elastocolor is an elastomeric, crack-bridging, anti-carbonation, acrylic protective coating. Sikagard®-550 W CA 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®-550 W CA Elastocolor will not act as a vapor barrier and will enhance the appearance of the structure.

USES

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.

CHARACTERISTICS / ADVANTAGES

- Low VOC for use in SCAQMD
- 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

PRODUCT INFORMATION

Packaging	5 gal. Hobbock.	
Appearance / Color	469 standard colors. Custom color-matching available.	
Shelf Life	2 years in original unopened container.	
Storage Conditions	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.	
Solid content by weight	Smooth 550W	62 %
	Sikagard® 552 W	20 %

Solid content by volume	Smooth 550W	55 %
	Sikagard® 552 W	17 %

TECHNICAL INFORMATION

Elongation at Break	625 % (21 days)	(ASTM D-412) 73 °F (23 °C) 50 % R.H.	
	225 % (21 days)	(ASTM D-412) 0 °F (-18 °C) 50 % R.H.	
Crack Bridging Ability	at 16 mils = 400 microns DFT		
	Static (at -4 °F/-20 °C)	30 mils (0.75 mm)	
	Dynamic > 1000 cycles (at -4 °F/-20 °C)	12 mils (0.3 mm)	
Reaction to Fire	Flame Spread: 5 Smoke Development: 5 Class Rating: A	(ASTM E-84-94)	
Resistance to Weathering	Excellent, no chalking or cracking (10,000 hours)	(ASTM G-23)	
Natural Weathering	No passage of water through the coating	(TT-C-555B)	
Permeability to Water Vapor	14.5 Perms	(ASTM E-96)	
Water Vapor Transmission	at 16 mils = 400 microns dry film thickness		
	μ - value H ₂ O (diffusion coefficient)	2,146	
	SdH ₂ O (equivalent air thickness)	2.6 ft. (0.8 m)	
Permeability to CO ₂	at 16 mils = 400 microns dry film thickness		after 2,000 hours
	μ - value CO ₂ (diffusion coefficient)	214,000	
	R (equivalent air thickness)	299 ft. (91 m)	
	Sc (equivalent concrete thickness)	9 inches (23 cm)	
	*accelerated weathering		

APPLICATION INFORMATION

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 dependant 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.

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

Waiting / Recoat Times	45 °F (8 °C)	68 °F (20 °C)	85 °F (30 °C)
	Sikagard® 552W Primer +Sikagard® 550W	24 hours	12 hours
Sikagard® 550W	12 hours	8 hours	6 hours
Rain resistant (at 75 % R.H.)	24 hours	4 hours	2 hours

Note: Over coating old coatings will increase the waiting times by 100 %.

APPLICATION INSTRUCTIONS

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. Bug holes, cracks or irregularities of substrate 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®-550 W CA Elastocolor.

APPLICATION

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®-550 W CA 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®-550 W CA 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®-550 W CA 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® sealants, a prime coat of Sikagard®-550 W CA Elastocolor Accent Base Coat may be necessary over the sealant to minimize dirt pick up on cured coating.
- Do not store Sikagard®-550 W CA 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.

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 or by calling SIKA's Technical Service

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