

Sikagard® 570

Elastomeric, UV curable, high build, fully reinforceable, acrylic facade coating.

Description	Sikagard 570 is an elastomeric, UV curing, crack-bridging, anti-carbonation, fully reinforceable, acrylic protective coating. Sikagard 570 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 570 will not act as a vapor barrier and will enhance the appearance of the structure. Sikagard 570 is cured by exposure to UV radiation present in sunlight, which aids in the development of a surface skin which is relatively harder than the bulk of the coating beneath. This leads to a more durable surface and reduced dirt pickup. Similarly, as the coating does eventually begin to wear, the exposed material will maintain its hardened surface.
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	<ul style="list-style-type: none"> ■ UV curable top coat for a more durable wearing surface and lesser dirt pickup. ■ Can bridge dynamically moving cracks ■ Excellent carbonation barrier ■ Vapor permeable ■ Provides resistance to weathering and frost ■ Crack bridging properties maintained at low temperatures ■ Can be fully reinforced with Sika Flexitape or Sika Reemat Standard ■ 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 ■ Nontoxic, nonflammable as a system ■ Easily maintained silk finish
Packaging	5 gallon
Coverage	<p>Theoretical yield for neat system: 100 sq. ft./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 570.</p> <p>Theoretical yield for reinforced system: 40 sq.ft./gal for the base coat with reinforcement: 40 mils 'wet' film thickness. A top coat at 80 sq.ft./gal to fully encapsulate the reinforcement: 20 mils 'wet' film thickness. In addition, allowance must be made for surface profile, unavoidable variation in applied film thickness, loss and waste.</p>

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.

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.		
Colors	469 standard colors. Custom color-matching available.		
Pot Life	Indefinite, provided proper care is taken in protecting the system from moisture, freezing, contamination, or evaporation.		
Solids Content	by weight	by volume	
Smooth 570	62%	55%	
Sikagard® 552W	20%	17%	
Tensile Properties (ASTM D-412 modified after 21 days cure)			
Tensile Strength	250 psi		
Elongation at Break	675% at 73°F (23°C)		
Tensile Strength at 0°F (-18°C)	1200 psi		
Elongation at Break at 0°F (-18°C)	275%		
Waiting Time (between coats) and Curing Rates	45°F (8°C)	68°F (20°C)	85°F (30°C)
	24 hours	12 hours	6 hours
	12 hours	8 hours	6 hours
	24 hours	4 hours	2 hours
Rain resistant (at 75% R.H.)			
(Note: Over coating old coatings will increase the waiting times by 100%)			
Water Vapor Diffusion (at 16 mils = 400 microns dry film thickness)			
μ - value H ₂ O (diffusion coefficient) = 2,146			



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SdH ₂ O (equivalent air thickness) = 2.6 ft. (0.8 m)		
Carbon dioxide diffusion (at 16 mils = 400 microns dry film thickness)		
		*After 2,000 hours
μ - value CO ₂ (diffusion coefficient) =		226,000
R (equivalent air thickness) =		299 ft. (91 m)
Sc (Equivalent concrete thickness) =		9 inches (23 cm)
*accelerated weathering		
Crack-Bridging (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)
Moisture Vapor Permeability (ASTM E-96)		
		14.5 Perms
Resistance to Wind Driven Rain (TT-C-555B)		
		No passage of water through the coating
Flame Spread and Smoke Development (ASTM E-84-94)		
Flame Spread: 5	Smoke Development: 5	Class Rating: A
Weathering (ASTM G-23)		
	10,000 hours	Excellent, no chalking or cracking

Curing Mechanism UV curing requires sunlight to harden the surface. This produces a tactile coating reflecting the composite nature of the coating film. In the complete absence of sunlight a softer surface will result although the product will dry cure.

How To Use

Surface Preparation 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 water jetting. Allow adequate time for drying. Bugholes, cracks or irregularities of substrate should be filled and leveled with SikaTop, SikaRepair, SikaQuick or acrylic surface fillers as appropriate

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 570.

Crack Treatment: Treatment of existing cracks and reinforcement Sikagard 570 is designed to accommodate existing cracks and those starting from "zero" up to defined limits. The product will fill and bridge minor static cracks up to 0.04" if applied more thickly on those areas. Static cracks larger than 0.04" should be filled with acrylic filler prior to being coated with Sikagard 570. Dynamic cracks can also be addressed this way as well, but should be filled prior with a flexible sealant. It is advisable to also embed Sika Flexitape for dynamic cracks over 0.04", as well as with construction, control, and expansion joints. Multi cracked or crazed surfaces should be either repaired beforehand or the Sikagard 570 system should be completely reinforced with Sika Reemat Standard Glass Fiber Matt.

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 570. 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 570 can be applied by brush, roller, or spray over entire area moving in one direction. Allow a minimum of two hours prior to recoating. 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 570 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 570 Accent Base Coat may be necessary over the sealant to minimize dirt pick up on cured coating.
 - Do not store Sikagard 570 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



Construction

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