BUILDING TRUST

PRODUCT DATA SHEET

Sikagard® FlexCoat

TWO-COMPONENT, POLYMER-MODIFIED, WATERPROOF, CEMENT-BASED COATING SYSTEM

PRODUCT DESCRIPTION

Sikagard® FlexCoat is a polymerized cementitious protective coating. It consists of a unique rubber-like polymer liquid (Part A) mixed at the time of application with a cement aggregate blend (Part B).

USES

- Balcony deck surfacing
- Concrete exterior restoration
- Sidewalk resurfacing
- Wall refinishing and installation coating
- Stadium renovation
- Swimming pool walkways

CHARACTERISTICS / ADVANTAGES

- It can be applied over almost any clean, sound surface e.g. concrete, block, masonry, etc. for a number of different floor, wall and roof uses.
- Extraordinary adhesion coupled with its ability to withstand prolonged pedestrian and light vehicular traffic. In these respects, the material is far superior to conventional cementitious coatings.
- Provides a waterproof coating which substantially reduces or prevents water penetration, freeze-thaw scaling and concrete carbonation.
- “Breathable” coating which releases normal entrapped vapor without loosening or blistering.
- Available in natural cement color.
- Sikalastic® Traffic Systems can be top coated with Sikagard® FlexCoat cement based systems. Please refer to the spec component of the Sikalastic®/Sikagard® Flexcoat Hybrid System.

PRODUCT INFORMATION

Packaging	3.5 gal (13.2 L) unit	55 lb (25 kg) bag
		2.5 gal (9.5 L) liquid
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging.	
Storage Conditions	Store dry at 40–95 °F (4–35 °C). Protect from freezing. If frozen, discard material.	

TECHNICAL INFORMATION

Impact Strength	2 lb (0.9 kg) steel ball dropped from 8 ft (2.4 m) height on to coated steel plate	No cracking or detachment	(MIL-D-3134, Para. 4.7.3.)
Compressive Strength	2,440 psi (16.8 MPa)		(ASTM C-109) 75 °F (24 °C) 50 % R.H.
Tensile Strength	430 psi (3.0 MPa)		(ASTM C-190) 75 °F (24 °C) 50 % R.H.
Tensile Adhesion Strength	28 days * 73 °F (23 °C) and 50 % R.H.	515 psi (3.6 MPa)	(ASTM C-882 Type I)*
Reaction to Fire	Complies as Class A Flame Spread - 4 Smoke Density - 0		(UL790) (ASTM E-84 Steiner Tunnel Test)
Behavior after Artificial Weathering	60 cycles *(Method 1 at 75 °F (24 °C) and 50 % R.H.)	No visible degradation	(ASTM G-23* Weatherometer)
Permeability to Water Vapor	1.96 perms/in.		(ASTM E-96)
Diffusion Resistance to Water Vapor	**Resistance to Wind-Driven Rain** 5” water pressure and 60 gal./hr. water flow	No water or dampness noted on back of test panels	Fed Spec. TT-C-558 (8 hrs.) TT-P-0035 (24 hrs.)
Water Absorption	21 days water immersion 75 °F (24 °C) and 50 % R.H.	< 2 % Weight gain by 4" (101.6 mm) coated concrete cube	
Carbonation Resistance	**Hydrocarbon Substances Resistance** 21 days repeated reapplication of gasoline	No softening or attack motor oil SAE-10, jet fuel	(ASTM D-1308 Spot Open Test)
Service Temperature	Condition material to 65–75 °F (18–24 °C) before using.		

SYSTEM INFORMATION

System Structure	Elongation	12%	(ASTM D-412)
	Shore Hardness	Durometer “A” - 82	(ASTM D-2240)

APPLICATION INFORMATION

Coverage	250 ft²/coat/unit (Coverage figures do not include allowance for surface profile and porosity or material waste)	
Layer Thickness	**Coat thickness** 60 mils	**Number of coat** 2
Ambient Air Temperature	> 50 ºF (10 ºC)	
Substrate Temperature	> 50 ºF (10 ºC)	

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

- Surface must be clean and sound.
- Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the area to be repaired.
- An open textured surface ICRI CSP-3 is recommended.
- Deeper areas shall be patched with appropriate patch material like SikaQuick® or SikaRepair® products.

MIXING

- Place the liquid component in appropriate mixing container.
- It is always recommended to start mixing with approximately 80 % of the liquid.
- Add the powder while continuing to mix with a low-speed drill (400–600 rpm) and paddle.
- Mix to a uniform consistency, maximum 3 minutes.

APPLICATION

- Pre-wet surface to SSD (Saturate Surface Dry).
- Insure good intimate contact with the substrate is achieved.
- Sikagard® FlexCoat can be applied in multiple coats by brush, roller, trowel or spray to a typical thickness of 60 mils (1.5 mm).
- Apply first coat of Sikagard® FlexCoat.
- Apply following coats (one or two depending on service conditions/ requirements) by brush, trowel roller or spray.
- Finish to specified texture.
- Protect newly applied Sikagard® FlexCoat from direct sunlight, wind, rain and freezing.
- Color Finish (optional) – apply Sikagard ® FlexCoat ATC acrylic top coat for color finish, when specified, in two coats by roller, brush or spray.

LIMITATIONS

- Minor shade variation may occur with natural cement color material.
- Not suitable for use in areas where acids or other aggressive chemicals are spilled.
- Top coats strongly recommended for color uniformity.
- Will reflect dynamic concrete cracks.
- Static and dynamic cracks can be detailed in accordance with accepted industry practices of using embedding mesh or other methods to reduce the reflecting of cracks.
- Sikagard® FlexCoat is a dense, cement-based waterproofing material that is vapor permeable. This product will not create a vapor barrier.
- Efflorescence in the existing substrate can result in the failure of the bond or discoloration of the surface if there are areas of concrete that are not protected from water ingress.
- Sikagard® FlexCoat has been tested with Sikagard® Flexcoat ATC. Use of any other top coat needs to be tested for compatibility and performance.
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® 32 Hi-Mod.
- Do not install Sikagard® FlexCoat in cold weather (i.e. below 50 ºF/10 ºC) or when rainfall can be expected prior to material setting.
- All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

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**

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