

Sikagard® FlexCoat - Cementitious Protective Coating

Two-component, polymer-modified, waterproof, cement-based coating system

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| 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). |
| Where to Use | <ul style="list-style-type: none"> ■ Balcony deck surfacing. ■ Concrete exterior restoration. ■ Sidewalk resurfacing. ■ Wall refinishing and installation coating. ■ Stadium renovation. ■ Swimming pool walkways. |
| Advantages | <p>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. Important characteristics of Sikagard® FlexCoat are its 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. Sikagard® FlexCoat provides a waterproof coating which substantially reduces or prevents water penetration, freeze-thaw scaling and concrete carbonation. It is a "breathable" coating which releases normal entrapped vapor without loosening or blistering. Sikagard® FlexCoat is available in natural cement color.</p> <p>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.</p> |
| Packaging | 55 lb. bag. and 2.5 gallon liquid (packaged in 3.5 gallon pail) = 1 unit. |
| Coverage | Sikagard® FlexCoat is applied in two coats. Each coat should be applied at 250 ft. ² /unit. A total of 60 mils total thickness is required. On-site results for coverage will vary. |

Typical Data (Material and curing conditions @ 75°F {24°C})

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

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| Shelf Life | 1 year in original, unopened packaging |
| Storage Conditions | Store dry at 40°-95°F(4°-35°C). Condition material to 65°-75°F before using. |
| Adhesion (ASTM C-882), Type I | 515 psi |
| Absorption | <2% |
| Weight gain by 4" coated concrete cube after 21 days water immersion | |
| Weathering (ASTM G23) Weatherometer) | No visible degradation |
| Method 1 procedure, 60 cycles | |
| Hydrocarbon Substances Resistance (ASTM D-1308, Spot Open Test) | |
| 21 days repeated reapplication of gasoline, motor oil SAE-10, jet fuel | |
| No softening or attack | |
| Resistance to Wind-Driven Rain | |
| Fed Spec. TT-C-558 (8 hrs.) & TT-P-0035 (24 hrs.) | |
| At 5" water pressure and 60 gal./hr. water flow | |
| No water or dampness noted on back of test panels | |
| Compressive Strength (ASTM C-109) | 2,440 psi |
| Tensile Strength (ASTM C-190) | 430 psi |
| Elongation (ASTM D-412) | 12% |
| Shore Hardness (ASTM D-2240) | Durometer "A" - 82 |
| Impact Resistance (MIL-D-3134, Para. 4.7.3.) | No cracking or detachment (2 lb. steel ball dropped from 8 ft. height on to coated steel plate) |
| Water Vapor Permeability (E-96) | 1.96 perms/inches |
| Flammable Properties (ASTM E-84 Steiner Tunnel Test) | Flame Spread - 4 Smoke Density - 0 |
| Fire Resistance (UL790) | Complies as Class A |



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/](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.

How to Use

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| Surface Preparation | Prepare surfaces by removal of dirt, foreign matter plus patching in accordance with manufacturer's recommendations. An open textured surface ICRI CSP.3 is recommended. Deeper areas shall be patched with appropriate patch material like SikaQuick® or SikaRepair® products. The material is applied in multiple coats by brush, roller, trowel or spray to a typical thickness of 60 mils. |
| 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. Mix to a uniform consistency, maximum 3 minutes. Mechanically mix with a low-speed drill (400-600 rpm) and paddle. |
| Application | Pre-wet surface to SSD (Saturate Surface Dry). Insure good intimate contact with the substrate is achieved. Sikagard® FlexCoat can be applied with brush, roller, trowel or spray application. 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. Color Finish (optional) – apply Sikagard® FlexCoat ATC acrylic top coat for color finish, when specified, in two coats by roller, brush or spray. Caution: Do not install Sikagard® FlexCoat in cold weather (i.e. below 50°F/10°C) or when rainfall can be expected prior to material setting. |
| Tooling & Finishing | Curing Protect newly applied Sikagard® FlexCoat from direct sunlight, wind, rain and freezing. |
| Limitations | <ul style="list-style-type: none"> ■ Apply product in temperatures > 50°F (7°C) and rising. ■ 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® FlexcoatATC. 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. |

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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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