BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET
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CHEMICAL-RESISTANT COATINGS

Sikagard®-62CA

HIGH BUILD AND ABRASION-RESISTANT EPOXY RESIN-BASED WATERPROOF COATING

Description

Sikagard®-62CA is a two-component, high solids and low solvent containing, epoxy resin-based protective and waterproof coating.
It is available in two grades, Sikagard®-62CA standard and Sikagard®-62 P.W.G. (Potable Water Grade).

Where to Use

Wherever a chemical, abrasion and corrosion resistant, tile like, protective coating is required on concrete or steel. Extensive use in chemical containment facilities and potable water tanks, reservoirs and similar structures.

Advantages

- Convenient 1:1 mix ratio.
- Easily applied, paint-like viscosity with high build finish.
- Outstanding bond to all common substrates.
- Exceptional tensile strength.
- Chemical resistance for long-term protection.
- High abrasion resistance for years of wear.
- Durable, smooth finish allows graffiti removal.
- Special order, potable water contact grade (Sikagard®-62 P.W.G.) complies with ANSI/NSF Standard 61.
- Canadian Food Inspection Agency acceptance.

Technical Data

Packaging	**Standard Grade:** 10 L (2.64 US gal.) unit **Potable Water Grade:** 15 L (3.9 US gal.) unit
Colour	**Standard Grade:** RAL 7038 Agate Grey **Potable Water Grade:** RAL 7038 Agate Grey, RAL 6027 Light Green **Special Colours:** On request, only apply to standard grade. **Note:** Potable Water Grade not available in special colours.
Yield	3.2 - 5.7 m^2/L (130 - 230 ft^2/US gal.) at 7 - 12.5 mils w.f.t. /d.f.t. per coat. Minimum two (2) coats recommended and 25 mils maximum for ANSI/NSF 61 compliance. Coverage will vary with temperature, substrate roughness, environment,and application technique.
Shelf Life	2 years in original, unopened packaging. Store in cool, dry area. Product must be between 18 and 29 °C (65 and 84 °F) during mixing and application for best results.
Mix Ratio	A:B = 1:1 by volume

Properties at 23 °C (73 °F) and 50 % R.H.

Pot Life	40 min	
Tack-Free Time	3 - 4 h	
Curing Time		
Light foot traffic	5 - 7 h	
Rubber wheel traffic	8 - 10 h	
Chemical exposure/Full traffic	3 days	
Waiting Time Between Coats		
(min./max.)	4/48 h	
Viscosity (A+B)	2800 cps	
Pull-Off Strength ASTM D4541	> 2 MPa (290 psi) Concrete failure	
Tensile Properties ASTM D638		
14 days	Tensile strength	44 MPa (6382 psi)
	Tensile elongation	2.7 %
Abrasion Resistance (Taber Abrader, Wheel H-22/1000 g (2.2 lb)/1000 cycles)		
7 days	0.61 g (0.021 oz)	
Abrasion Resistance ASTM D968		
14 days	Abrasion coefficient	51 L/mil (13.47 US gal. /mil)
Adhesion ASTM D3359		
1 day	Adhesion classification	4 A
Water Absorption ASTM D570		
7 days	0.9 %	
VOC Content	20.3 g/L	

Chemical Resistance

Specimen: Approx. 20 mils (d.f.t.) on asbestos cement substrate. [Cured 10 days at 21 °C (70 °F) and 50 % R.H.]

Chemical products	**Test Temp.**	**Storage time and evaluation** 1 day	1 month	2 months	6 months	12 months
Water	24 °C (75 °F)	A	A	A	A	A
	38 °C (100 °F)	A	A	A	A	A
	60 °C (140 °F)	A	A	A	AD	AD
Sodium Chloride solution (Saturated)	24 °C (75 °F)	A	A	A	A	A
	60 °C (140 °F)	A	A	A	A	A
Sodium Hydroxide 30 %	24 °C (75 °F)	A	A	A	A	A
Cement Water (Saturated)	24 °C (75 °F)	A	A	A	A	A
Detergent Solution (5 % Ajax)	24 °C (75 °F)	A	A	A	A	A
	60 °C (140 °F)	A	A	A	AD	AD

Chemical products	Test	Storage time and evaluation				
	Temp.	1 day	1 month	2 months	6 months	12 months
Sulfuric Acid 10 %	24 °C (75 °F)	A	A	A	B	B
Oxalic Acid 10 %	24 °C (75 °F)	A	AD	AD	AD	AD
Citric Acid 10 %	24 °C (75 °F)	A	AD	AD	AD	AD
Fuel Oil (Home Heating)	24 °C (75 °F)	A	A	A	A	AD
Gasoline (Unleaded)	24 °C (75 °F)	A	A	A	A	AD
Iso-octane	24 °C (75 °F)	A	A	A	A	AD
Toluol	24 °C (75 °F)	A	A	A	A	AD
Silage	24 °C (75 °F)	A	A	AD	AD	BD
Synthetic	24 °C (75 °F)	A	A	BD	BD	BD
Liquid Manure	24 °C (75 °F)	A	A	A	A	AD
Ethyl Alcohol	24 °C (75 °F)	A	C	-	-	-

A = Resistant in permanent contact; B= Breakdown of film; C = Destroyed; D = Discoloured

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

HOW TO USE

Surface Preparation

All surfaces must be clean, sound and free of surface water. Remove laitance, curing compounds, other coatings, oil, grease, rust, wax or other bond inhibiting substances. Sandblast concrete surfaces or use any appropriate mechanical means, in order to achieve a profile equivalent to ICRI / CSP 3. Sandblast steel surfaces to white metal finish. Repair all surface irregularities such as bug holes, honeycombed areas, cracks, etc with a suitable Sika® repair material to provide a uniform, flat surface prior to coating. The compressive strength of the concrete should be at least 25 MPa (3625 psi) at 28 days and at least 1.5 MPa (218 psi) in tension at time of Sikagard®-62CA application.

Mixing

For best results, precondition each component at temperatures between 18 and 29 °C (65 and 84 °F) before using. Pre-stir each component separately before mixing. Empty contents of Component A or correctly measured part of such into a suitably sized and clean mixing container and add contents of Component B or correct ratio of such. Prepare only that quantity which can be used within the pot life of the material. Mix the combined Components for at least three (3) minutes with a low-speed drill (300 - 450 rpm) to minimise entrapping air and fitted with an *Exomixer®* type mixing paddle (recommended model) suited to the volume of the mixing container. During the mixing operation, scrape down the sides and the bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. When completely mixed, Sikagard®-62CA should be uniform in colour and consitency.

Application

Apply the coating using roller, brush or spray. A minimum of two (2) coats are recommended. The use of differing colours between coats will serve to provide a means to monitor that the necessary number of coats have been applied and operates as wear indicator to determine when refresher coats are required. Second coat can be applied as soon as first coat is tack-free and traffic will not damage first coat. Second coat, however, must be applied within 48 hours, since a longer delay will require additional surface preparation (abrasion of surface to achieve physical key, vacuuming to remove all preparation residue and solvent wiping to reactivate the surface).

Clean Up

Clean all tools and equipment immediately after use with Sika® Epoxy Cleaner. Once hardened, material can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.

Limitations

- Sikagard®-62CA is not suitable for use on exterior, slab-on-grade concrete substrates.
- Substrate temperature (Min./Max.): 10 / 30 °C (50 / 86 °F)
- Substrate temperature must be at least 3 °C (5.5 °F) above the measured dew point.
- Maximum relative humidity during application and cure: 85 %
- Do not apply to porous surfaces where moisture vapour transmission will occur during application.
- For concrete or other porous substrates exhibiting humidity/moisture content exceeding 4 % by weight, apply Sikagard®-75 EpoCem®CA as a temporary moisture barrier for vertical surfaces or Sikafloor®-81 EpoCem®CA for floor applications before coating with Sikagard®-62CA.
- Do not hand mix Sikagard®-62CA; mechanical mix only
- Protect from dampness, condensation and water contact during the initial 24 hour cure period.
- The coating may discolour in areas exposed to constant ultra violet light.
- Only Sikagard®-62 P.W.G. is suitable for contact with potable (drinking) water as per assessment to ANSI/NSF Standard 61. Sikagard®-62CA standard grade is not.
- Sikagard®-62 P.W.G. must be disinfected in accordance with American Water Works Association (AWWA) Standard C652 Method 2 before first contact with drinking water.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

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FOR INDUSTRIAL USE ONLY

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