

Product Data Sheet
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Sikagard®-62

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2-part epoxy protective coating

Product Description

Sikagard®-62 is a two-component, solvent-free, high build coating material based on epoxy resins.

Fields of Application

- n** As an abrasion-resistant universal coating material designed for normal to moderately aggressive chemical environments.
- n** Sikagard®-62 is suitable for use on concrete, stone, cementitious mortars and renderings (not polymer modified), epoxy cements (including Sika®-EpoCem), asbestos cement, epoxy mortars, iron and steel.
- n** As anti-corrosion coating in food-processing plants, sewage works, farms and agricultural enterprises, chemical and pharmaceutical plants, beverage industries and bottling plants.
- n** Also used as part of glass fibre reinforcement self-supporting linings with crack-bridging properties on bund areas and storage tanks.

Characteristics / Advantages

- n** Solvent free
- n** Good chemical resistance
- n** Good mechanical strengths
- n** High-build
- n** Cures without shrinkage
- n** Safe to use in contact with foodstuff and potable water
- n** Easy to mix and apply
- n** Can be applied by brush and roller or airless spray
- n** Forms a smooth, even coating
- n** May be used as part of bridging laminates

Tests

Approvals/Standards

Classified as "Water Regulations Advisory Scheme" items which have passed full tests of effect on water quality – BS 6920'
Test Report: M103632.

Product Data

Form

Appearance / Colours

Light grey, light green, white

Packaging

5 kg units (Comp. A+B)

Storage

Storage Conditions/ Shelf-Life

24 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Construction



Technical Data

Chemical Base	Epoxy resin
Density	Mixed resin: ~ 1.35 ± 0.05 kg/l (20 °C, 50 % rh)
Viscosity	Comp. A: thixotropic Comp. B: ~1150 mPas ([at 20 °C, 50 % rh)
Thermal Expansion Coefficient	~ 7.5 x 10 ⁻⁵ [α = m/m/ °C] (temperature range: -20 °C to +40 °C)
Water Vapour Diffusion Coefficient (μH₂O)	~ 100.000

Mechanical / Physical Properties

Bond Strength	<p><i>Substrate:</i></p> <p>Concrete : ~3.5 N/mm² (failure in concrete)</p> <p>Steel (sandblasted) : ~25 N/mm²</p> <p>Minimum thickness of coating for effective anti-corrosion protection: 0,6 mm dft (at least 2 coats, on mineral substrates no pinholes or air bubbles).</p>
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Chemical Resistance

Test medium	Test temp °C	1 day	7 days	30 days	60 days	180 days	360 days
Acetone	20°C	A	C	-	-	-	-
Acrylonitrile	20°C	A	A	A	A	A	A
Acetic ester (concentrated)	20°C	A	B	C	-	-	-
Acetic ester 20 %	20°C	A	A	A	A	AD	C
	40°C	A	A	A	AD	C	-
Ammoniac 10%	20°C	A	A	A	A	A	A
	40°C	A	A	A	A	A	AD
Caustic soda 30 % (NaOH)	20°C	A	A	A	A	A	A
	40°C	A	A	A	A	A	A
Cement water (saturated) (Ca(OH) ₂)	20°C	A	A	A	A	A	AD
	40°C	A	A	A	A	A	BD
Citric acid 20 %	20°C	A	A	A	A	AD	AD
	40°C	A	A	A	AD	AD	AD
Detergents	20°C	A	A	A	A	A	A
	40°C	A	A	A	A	AD	AD
Distilled water	20°C	A	A	A	A	A	A
	40°C	A	A	A	A	A	AD
	60°C	A	A	A	BD	BD	BD
Ethanol	20°C	A	A	A	B	C	-
	40°C	A	B	C	-	-	-
Ethanol/water 60:40	20°C	A	A	A	A	A	A
Formic acid 10 %	20°C	A	A	A	A	A	B
Fuel oil (EMPA)	20°C	A	A	A	A	A	A
	40°C	A	A	A	A	A	A
	60°C	A	A	A	A	A	A
Hydraulic fluids (e.g. "Arcosafe", "Skydrol")	20°C	A	A	A	A	A	A
	40°C	A	A	A	A	B	C
Hydrochloric acid (saturated) (HCl)	20°C	A	AD	AD	AD	AD	AD
	40°C	AD	AD	AD	BD	C	-

Chemical Resistance

Test medium	Test temp °C	1 day	7 days	30 days	60 days	180 days	360 days
Hydrogen peroxide 5 % (H ₂ O ₂)	20°C	A	A	A	A	B	B
Iron-III-chloride solution (FeCl ₃) 35 %	20°C	A	A	AD	AD	AD	AD
	40°C	A	A	AD	AD	AD	AD
Iron-II-sulphate solution (FeSO ₄) 35 %	20°C	A	AD	AD	AD	AD	AD
	40°C	A	AD	AD	AD	AD	AD
Javelle water 14 % (Cl ₂)	20°C	A	A	AD	BD	BD	C
Kerosene	20°C	A	A	A	A	A	A
	40°C	A	A	A	A	A	A
Lactic acid 20 %	20°C	A	A	A	AD	BD	C
	40°C	A	A	AD	C	-	-
Liquid silage	20°C	A	A	A	AD	AD	AD
	40°C	A	A	AD	BD	BD	BD
Liquid manure	20°C	A	A	A	A	A	A
	40°C	A	A	A	AD	AD	AD
Methyl ethyl ketone MEK	20°C	A	C	-	-	-	-
Nitric acid 20 % (HNO ₃)	20°C	AD	AD	AD	C	-	-
	40°C	AD	AD	C	-	-	-
Oxalic acid 10 % (H ₂ C ₂ O ₄)	20°C	A	A	AD	AD	BD	C
	40°C	AD	AD	BD	C	-	-
Potassium permanganate 10 % (KMnO ₄)	20°C	A	A	B	C	-	-
Phosphoric acid 40 % (H ₃ PO ₄)	20°C	A	AD	AD	BD	BD	C
	40°C	AD	AD	BD	C	-	-
Red/white Wine	20°C	A	A	A	A	A	A
Sodium chloride solution (saturated) (NaCl)	20°C	A	A	A	A	A	A
	40°C	A	A	A	A	A	A
Soda solution (saturated) (Na ₂ CO ₃)	20°C	A	A	A	A	A	A
	40°C	A	A	A	A	A	A
Sulphuric acid 50 % (H ₂ SO ₄)	20°C	AD	AD	AD	AD	AD	AD
	40°C	AD	AD	AD	AD	AD	AD
Sulphurous acid 5 % (H ₂ SO ₃)	20°C	A	A	AD	AD	AD	BD
	40°C	A	AD	AD	AD	AD	BD
Styrene	20°C	A	A	A	A	A	B
Tartaric acid 20 %	20°C	A	A	A	A	A	A
Toluene	20°C	A	A	B	B	B	B
	40°C	A	A	B	B	B	C
Trichlorethylene	20°C	A	B	C	-	-	-
Water	20°C	A	A	A	A	A	A
	40°C	A	A	A	A	A	A
	60°C	A	A	A	B	B	B

For Information about resistance to other media, please contact our Technical Department.

A= resistance to prolonged contact, B= temporarily resistant, C= break down of coating, D= resistant, but discoloration of coating

Application Details

Consumption 0.3-1.0 kg/m² per coat, depending on substrate condition and coating thickness required. For a theoretical dry film thickness of 100 microns (0.1 mm) approx. 0.14 kg/m².

Substrate Conditions The substrate must be of sufficient strength, even, dense, dry and free from oil grease, loose and friable particles. Moisture content < 4%

Substrate Preparation Very smooth surfaces, insufficient layers and oily contaminations must be removed mechanically (e.g. by blast cleaning or grinding). Then thoroughly cleaned to remove all dust. A sealer/levelling coat of Sikagard®-720 EpoCem or Sikafloor®-81/82 EpoCem should then be applied, after first making good any major surface defects. Steel and iron surfaces must be sandblasted (SA 2 ½).

Application Conditions / Limitations

Substrate Temperature +8°C min. / +30 °C max.

Ambient Temperature +8°C min. / +30 °C max.

Relative Air Humidity 85% r.h. max. (including over night)

Dew Point Beware of condensation!

The substrate and uncured coating must be at least 3°C above dew point to reduce the risk of condensation or blooming on the coating surface.

Application Instructions

Preparation of Material Both components are packed separately. Stir component B first and add entire contents to Component A, using a paintbrush or spatula to scrape out residue. Mix thoroughly with an electric stirrer at low speed (~300 rpm), taking care to entrain as little air as possible. Leave mixture to stand for approximately 3 minutes before applying.

Application Method / Tools Sikagard®-62 may be applied with a paintbrush, nylon roller, spatula or airless spray equipment.

Cleaning of Tools Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

Pot Life

+30 °C	~ 10 min.
+20 °C	~ 20 min.
+10 °C	~ 30 min.
+ 5 °C	~ 90 min.

Waiting Time / Overcoating Waiting time between coats should not exceed 48 hours. Otherwise surface must be ground before recoating.

Notes on Application / Limitations Cementitious substrates must be at least 4 weeks old.

Curing Details

Approximate Cure Times

Sikagard-62	+20°C	+10°C	+5°C
Overcoatable after	5 hours	10 hours	18 hours
Pedestrian traffic	8 hours	17 hours	24 hours
Fully cured after	9 days	12 days	15 days

Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
Legal Notes	The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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