

# Sikagard®-62

## 2-Part Epoxy Protective Coating

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### Product Description

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

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### Uses

As an abrasion-resistant universal coating material designed for normal to moderately aggressive chemical environments, **Sikagard®-62** is suitable for use on:

- Concrete, stone.
- Cementitious mortars and renderings (not polymer-modified).
- Epoxy cements (EpoCem).
- Asbestos cement.
- Epoxy mortars.
- Iron and steel (sandblasted).

#### **For linings to:**

- Storage tanks.
- Silos (approved for use in contact with foodstuff and animal feed).
- Bund areas.
- Steel tanks as defined in Appendix 2 of TTV code.
- TTV code Swiss safety code applicable to tanks and storage vessels.

#### **As anti-corrosion coating in:**

- Food processing plants.
- Farms and agricultural enterprises.
- Beverage industries, bottling plants.
- Sewage works.

#### **Also used as part of a glass fibre-reinforced self-supporting lining with crack bridging properties for:**

- Bund areas and storage tanks.
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### Advantages

- Solvent-free.
  - Good chemical resistance.
  - Good mechanical strengths.
  - High-build.
  - Cures without shrinkage.
  - Safe to use in contact with foodstuffs.
  - Easy to mix and work.
  - Can be applied by brush, roller or airless spray.
  - Forms a smooth, even coating.
  - May be used as part of bridging laminates (in accordance with Appendix 8 of TTV code).
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## Test Certificates

- Approved by BUS: See appendix 6 of TTV code (EAGS-No. 04.54.70).
- EMPA: Federal material testing laboratory (Dübendorf, Switzerland):  
Test for crack-bridging properties in accordance with Appendix 2 of TTV code:  
0.5 mm: 1 layer of glass fibre mesh, Type 270.  
1.0 mm: 2 layers of glass fibre mesh, Type 270.

## Product Data

<b>Colour</b>	Pebble grey (RAL 7032) Other colors available on request.
<b>Packaging</b>	10 kg units (Comp. A + B).
<b>Storage</b>	Store at temperatures between + 5°C and +30°C.
<b>Shelf life</b>	12 months from date production if stored properly in original unopened packing.

## Technical Data

<b>Density (at 20°C)</b>	Comp. (A+B): 1.35 kg/l (± 0.05).
<b>Viscosity (cps/20°C)</b>	Comp. (A) : thixotropic. Comp. (B) : 1150 ± 100. Comp. (A+B) : thixotropic
<b>Coefficient of thermal Expansion (<math>\alpha = m/m \times ^\circ C</math>)</b>	~ 20°C to + 40°C: ~7.5 x 10 <sup>-5</sup> per .°C.
<b>Resistance to diffusion of water vapour (<math>\mu H_2O</math>)</b>	~ 100'000
<b>Bond strength (Din 53 232)</b>	On concrete 3.5 N/mm <sup>2</sup> approx. On steel (sandblasted) : 25 N/mm <sup>2</sup> approx.

## Chemical Resistance

Test medium	Test Temp. °C	Exposure period and performance rating					
		1 day	7 days	30 days	2 months	6 months	12 months
Acetone	20	A	C	-	-	-	-
Acrylonitrile	20	A	A	A	A	A	A
Ethanol	20	A	A	A	B	C	-
	40	A	B	C	-	-	-
Ethanol / water 60: 40	20	A	A	A	A	A	A
Formic acid 10%	20	A	A	A	A	A	B
Ammoniac 10%	20	A	A	A	A	A	A
	40	A	A	A	A	A	AD
Distilled water	20	A	A	A	A	A	A
	40	A	A	A	A	A	AD
	60	A	A	A	BD	BD	BD
Detergents (e.g. liquid Ajax™)	20	A	A	A	A	A	A
	40	A	A	A	A	AD	AD
Iron-III-chloride solution 35%	20	A	A	AD	AD	AD	AD
	40	A	A	AD	AD	AD	AD
Iron-II-sulphate solution 35%	20	A	AD	AD	AD	AD	AD
	40	A	AD	AD	AD	AD	AD
Acetic ester	20	A	B	C	-	-	-
Acetic acid 20%	20	A	A	A	A	AD	C
	40	A	A	A	AD	C	-
Liquid manure	20	A	A	A	A	A	AD
	40	A	A	A	AD	AD	AD

<b>Fuel oil (EMPA)</b>	20	A	A	A	A	A	A
	40	A	A	A	A	A	A
	60	A	A	A	A	A	A
<b>Hydraulic fluids (e.g. "Arcosate", "Skydrol")</b>	20	A	A	A	A	A	A
	40	A	A	A	A	B	D
<b>Javelle water 14% Cl<sub>2</sub></b>	20	A	A	AD	BD	BD	C
<b>Potassium permanganate 10%</b>	20	A	A	B	C	-	-
<b>Kerosene</b>	20	A	A	A	A	A	A
	40	A	A	A	A	A	A
<b>Soda solution (saturated)</b>	20	A	A	A	A	A	A
	40	A	A	A	A	A	A
<b>Methyl ethyl ketone MEK</b>	20	A	C	-	-	-	-
<b>Lactic acid 20%</b>	20	A	A	A	A	BD	C
	40	A	A	AD	C	-	-
<b>Sodium chloride solution (saturated)</b>	20	A	A	A	A	A	A
	40	A	A	A	A	A	A
<b>Caustic soda 30%</b>	20	A	A	A	A	A	A
	40	A	A	A	A	A	A
<b>Oxalic acid 10%</b>	20	A	A	AD	AD	BD	C
	40	A	AD	AD	C	-	-
<b>Phosphoric acid 40%</b>	20	A	AD	AD	BD	BD	C
	40	AD	AD	BD	C	-	-
<b>Red wine</b>	20	A	A	A	A	A	A
<b>Nitric acid 20%</b>	20	AD	AD	AD	C	-	-
	40	AD	AD	C	-	-	-
<b>Hydrochloric acid 10%</b>	20	A	A	A	A	A	A
<b>Hydrochloric acid (saturated)</b>	20	A	AD	AD	AD	AD	AD
	40	AD	AD	AD	BD	C	-
<b>Sulphuric acid 50%</b>	20	AD	AD	AD	AD	AD	AD
	40	AD	AD	AD	AD	AD	AD
<b>Suphurous acid 5%</b>	20	A	A	AD	AD	AD	BD
	40	A	AD	AD	AD	AD	BD
<b>Liquid silage</b>	20	A	A	A	AD	AD	AD
	40	A	A	AD	BD	BD	BD
<b>Soda solution (saturated)</b>	20	A	A	A	A	A	A
	40	A	A	A	A	A	A
<b>Styrene</b>	20	A	A	A	A	A	A
<b>Toluene</b>	20	A	A	B	B	B	B
	40	A	A	B	B	B	C
<b>Trichloroethylene</b>	20	A	B	C	-	-	-
<b>Water</b>	20	A	A	A	A	A	A
	40	A	A	A	A	A	A
	60	A	A	A	B	B	B
<b>Hydrogen peroxide 5%</b>	20	A	A	A	A	B	B
<b>Tartaric 20%</b>	20	A	A	A	A	A	A
<b>White win</b>	20	A	A	A	A	A	A
<b>Cement water (saturated)</b>	20	A	A	A	A	A	A
	40	A	A	A	A	A	A
<b>Citric acid 20%</b>	20	A	A	A	A	AD	A
	40	A	A	A	AD	AD	AD

A = Resistance to prolonged contact.

B = Temporarily resistant

C = Breakdown of coating

D = Discoloration of coating

For information about resistance to other media, please consult our technical Department

## Application Details

<b>Consumption</b>	0.3 - 1.0 kg/m <sup>2</sup> 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/m <sup>2</sup> .																														
<b>Surface Preparation</b>	The substrate must be clean and free all traces of loose material, oil and grease. Very smooth or contaminated surfaces should be ground or grit-blasting or grinding, then thoroughly cleaned to remove all dust. A sealer coat of Sikagard® -720 EpoCem should then be applied, after first making good any major surface defects (broken or honey combed concrete, etc.) with Sikadur® -45 EpoCem Patching Mortar.																														
<b>Application Limitations</b>	<ul style="list-style-type: none"><li>■ Apply to dry substrate only.</li><li>■ Moisture content &lt; 4%.</li><li>■ Steel and iron surfaces must be sandblasted (SA 2.5)</li><li>■ Minimum temperature of substrate: + 8°C.</li><li>■ Maximum rel. humidity not to exceed 85% (incl. overnight).</li><li>■ Observe dew point.</li><li>■ Substrate temperature must be 3°C above measured dew-point.</li><li>■ Cementitious substrates must be at least 4 weeks old.</li><li>■ Waiting time between coats should not exceed 48 hours - Otherwise surface must be ground before recoating.</li><li>■ Minimum thickness of coating for effective anti-corrosion protection: 0.6 mm dft (at least 2 coats, no pinholes or air bubbles).</li><li>■ For crack-bridging laminates, see separate System Data Sheet on laminates appendix 2 TTV.</li></ul>																														
<b>Mixing</b>	Both components are packed in a single container. Remove plastic insert containing component (B) and add entire contents to component (A), using a paintbrush or spatula to scrape out residue. Mix thoroughly with an electric stirrer, taking care to entrain as little air as possible. Leave mixture to stand for approximately 3 minutes before applying.																														
<b>Application</b>	<b>Sikagard®-62</b> may be applied with a paintbrush, nylon roller, spatula or airless spray equipment																														
<b>Cleaning</b>	Clean all tools and equipment immediately after use with Colma-cleaner, once hardened the material can only be removed mechanically.																														
<b>Caution</b>	Colours will yellow slightly if exposed to direct sunlight.																														
<b>Rate of reaction</b>	<table><thead><tr><th></th><th>Pot life (2 kg batch)</th><th>Curing times:</th><th>20°C</th><th>10°C</th><th>5°C</th></tr></thead><tbody><tr><td>30°C</td><td>15 min</td><td>- Can be overpainted after:</td><td>5 hrs.</td><td>10 hrs</td><td>18 hrs.</td></tr><tr><td>20°C</td><td>30 min.</td><td>- Can be walked on after:</td><td>8 hrs.</td><td>17 hrs.</td><td>24 hrs.</td></tr><tr><td>10°C</td><td>60 min.</td><td>- Fully cured after:</td><td>9 days</td><td>12 days</td><td>15 days</td></tr><tr><td>5°C</td><td>90 min</td><td>*Full mechanical and chemical resistance</td><td></td><td></td><td></td></tr></tbody></table>		Pot life (2 kg batch)	Curing times:	20°C	10°C	5°C	30°C	15 min	- Can be overpainted after:	5 hrs.	10 hrs	18 hrs.	20°C	30 min.	- Can be walked on after:	8 hrs.	17 hrs.	24 hrs.	10°C	60 min.	- Fully cured after:	9 days	12 days	15 days	5°C	90 min	*Full mechanical and chemical resistance			
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<b>Safety</b>	For information and advice on the safe handling, storage and disposal of chemical products, users should 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 products when properly stored, handled and applied under normal conditions. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

For further technical information, please consult our technical service department.



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