BUILDING TRUST

PRODUCT DATA SHEET

Sikagard®-62

2-Part epoxy-based protective coating

PRODUCT DESCRIPTION

Sikagard®-62 is a two-part, rigid, 100 % solids, coloured, high build epoxy resin based protective coating.

USES

Sikagard®-62 may only be used by experienced professionals.

- Chemical resistant protective layer on concrete, stone, cementitious mortars and renderings, epoxy cement, epoxy resin based products and steel.
- Lining in storage tanks and silos.
- Anti-corrosion coating on steel in food processing plants, sewage works, farms, agricultural enterprises, chemical and pharmaceutical facilities and beverage industry.

CHARACTERISTICS / ADVANTAGES

- Solvent free.
- Good mechanical and chemical resistance.
- High build.
- Impervious to liquids.
- Easy to mix and to apply.

ENVIRONMENTAL INFORMATION

- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings.
- European Environmental Product Declaration.

APPROVALS / STANDARDS

- CE-Certification as coating for concrete protection according the requirements of EN 1504-2.
- Chemical Resistance Chart.

PRODUCT INFORMATION

Chemical Base	2-part epoxy-based resin
Packaging	Sikagard®-62 is available in 5 kg kits consisting of Part A — 3.75 kg pail Part B — 1.25 kg pail
Appearance / Colour	Light Grey or Light Green.
Shelf Life	12 months from date of production if stored at below mentioned conditions.
Storage Conditions	The packaging must be stored properly in original, unopened and undam-

	aged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight.

Density	**Part A**	~1.45 kg/l		(EN ISO 2811-1)
	Part B	~1.02 kg/l		
	Mixed Product	~1.37 kg/l		
	NOTE: Density values determined at +23 °C.			
Solid Content	~ 100 %			
Solid content by mass	~ 100 %			

TECHNICAL INFORMATION

Shore D Hardness	~80		
Mechanical resistance	Impact resistance	~6 Nm	(EN ISO 6272-2)
Abrasion Resistance	Abrasion resistance	607 mg	(EN ISO 5470-1)
	Wear resistance BCA	Class AR1	(BS EN 13892-4)
Tensile adhesion strength	> 2.5 MPa to concrete		(EN 1542)
Chemical Resistance	Please refer to Chemical Resistance Chart (available on request).		

Thermal Resistance

Exposure to Dry Heat	Temperature
Permanent	+50 °C
Maximum 7 days	+80 °C
Maximum 12 hours	+100 °C

Permeability to Water Vapour	S_d = 44 m (Class II)	(EN ISO 7783)
Permeability to CO2	S_d = 711 m	(EN 1062-6)
Service Temperature	-30 °C to +50 °C	
Water penetration after capillary absorption	< 0.01 kg/(m²·h$^{0.5}$)	(EN 1062-3)
Compressive Strength	Class $B2_{fl}$	(EN 13501-1)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 3 : 1 by weight
Consumption	~0.30 kg/m² per layer, minimum 2 layers required. One 5 kg kit will cover ~8.3 m² (with lowest possible layer thickness).
Layer Thickness	~0.2 mm per layer, minimum of two layers required. **NOTE:** Three layers are the recommended application, alternating colours per layer as an indicator of wear on the topcoat. A typically used system is: Light Grey, followed by Light Green, with a Light Grey topcoat.
Ambient Air Temperature	+8 °C minimum / +40 °C maximum
Relative Air Humidity	< 80 %
Substrate Temperature	+8 °C minimum / +40 °C maximum **NOTE:** Minimum +3 °C above dew point, beware of condensation!

Pot Life

Temperature	Working Time
+10 °C	~30 minutes
+20 °C	~20 minutes
+30 °C	~10 minutes

Waiting Time / Overcoating

Temperature	Minimum	Maximum	Full Cure
+10 °C	~ 30 hours	~ 3 days	~ 14 days
+20 °C	~ 10 hours	~ 2 days	~ 10 days
+30 °C	~ 6 hours	~ 1 day	~ 5 days

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.

USES

For professional use only!

LIMITATIONS

- Do not apply Sikagard®-62 on moist substrates.
- Sag resistance on vertical surface is approximately 200 µm.
- Freshly applied Sikagard®-62 must be protected from damp, condensation and water for at least 24 hours.
- For exact colour matching ensure using material from the same control batch numbers.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Concrete Substrate
The substrate must be sound, clean, dry, free from contaminants such as dirt, grease, oil, old coatings, release agents, laitance and other adhesion preventing or influencing substances. Weak areas in the substrate must be removed and surface defects such as blowholes and voids must be fully exposed. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and / or vacuum. Open voids and blowholes need to be closed with a suitable Sika® pore filling mortar. The roughness of the substrate needs to be levelled with a suitable Sika® fairing coat. Concrete substrate must be prepared mechanically to achieve an open textured surface. All concrete and mineral surfaces must be primed with a suitable Sika® primer (e.g. Sikafloor®-150, -150 plus or -151) before application of Sikagard®-62. Alternatively, the first coat of the Product can be used as the priming coat (a total of three coats are typically used for this configuration: primer, body and topcoat).

Steel Surface
Steel surface must be prepared mechanically using abrasive blast cleaning. The level SSPC-SP 10 “near white metal blast cleaned” or level Sa 2 ½ according to ISO EN 12944-4 has to be achieved. Welds and joints have to be prepared according to EN 14879, part 1. After blast cleaning remove all dust dirt and blasting material. In order to maintain the surface conditions after blast cleaning air-conditioning is recommended.

MIXING

Prior to mixing stir Part A mechanically. Then add Part B to Part A and mix continuously for 3 minutes until a uniform mix has been achieved. Use a low speed electrical stirrer (300 to 400 rpm) to avoid air entrapment. To ensure proper mixing pour material into a clean container and stir again. Do not mix by hand!

APPLICATION

Apply by brush, roller or airless spray onto the prepared and primed surface with a minimum consumption of 300 g/m².
After drying of the first layer, apply the second layer with a minimum consumption of 300 g/m². Two layers are mandatory (three coats if used as a primer).
A third layer is recommended to provide maximum performance and protection, especially if very harsh conditions to be expected. The colours should be alternated per layer so any wear is visually identifiable (e.g. Light Grey, Light Green with a topcoat of Light Grey).
For details on spray application, please consult Sika® Technical Department for further information.

CLEANING OF TOOLS

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

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.

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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