

# PRODUCT DATA SHEET

## Sikagard®-62

### 2-PART EPOXY PROTECTIVE COATING

#### DESCRIPTION

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

#### USES

- 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

#### SUSTAINABILITY

According USGBC LEED Rating Sikagard®-62 conforms to the requirements of LEED EQ Credit 4.2: Low –Emitting Materials: Paints & Coatings SCAQMD Method 304-91, VOC Content < 100g/l

#### APPROVALS / STANDARDS

- Coating for concrete protection according the requirements of EN 1505-2/2004.
- WRAS, test report No. M104991, 2011, Contact with water for wholesome purposes according BS 6920-1:2000

#### PRODUCT INFORMATION

<b>Chemical base</b>	Epoxy resin	
<b>Packaging</b>	Part A	7.50 kg can
	Part B	2.50 kg can
<b>Appearance / Colour</b>	Resin - Part A:	Coloured, liquid
	Hardener - Part B:	Transparent, liquid
	RAL 7032 (pebble grey), other on request Under sun radiation it may come to discolouration and colour deviation; this has no influence to the function of the coating.	
<b>Shelf life</b>	Part A: 12 months Part B: 12 months From date of production if stored properly.	

<b>Storage conditions</b>	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C. Protected from direct sunlight.		
<b>Density</b>	Part A	~1.45 kg/L	(EN ISO 2811-1)
	Part B	~1.02 kg/L	
	Mixed resin ~1.37 kg/L Density values determined at +23 °C		
<b>Solid content</b>	~100 %		

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~80		(DIN 5305)
<b>Mechanical Resistance</b>	Taber Abraser	CS 10/1000/1000	~24.4 mg
	Taber Abraser	CS 17/1000/1000	~70 mg
	Taber Abraser	H 22/1000/1000	~560.6 mg
<b>Tensile Adhesion Strength</b>	> 1.5 N/mm <sup>2</sup> to concrete		(ISO 4624)
<b>Chemical Resistance</b>	Please contact Sika technical service for specific information.		
<b>Thermal Resistance</b>	<b>Exposure</b>	<b>Dry heat</b>	
	Permanent	+50 °C	
	max. 7 days	+80 °C	
	max. 12 hours	+100 °C	

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Part A : Part B = 3 : 1 by weight			
<b>Consumption</b>	~0.30 kg/m <sup>2</sup> per layer			
<b>Layer Thickness</b>	~0.2 mm per layer			
<b>Ambient Air Temperature</b>	+8 °C ... +40 °C			
<b>Relative Air Humidity</b>	< 80 %			
<b>Substrate Temperature</b>	+8 °C ... +40 °C			
	≥ 3 °C above dew point, beware of condensation			
<b>Pot Life</b>	<b>Temperature</b>	<b>Time</b>		
	+10 °C	~ 30 min		
	+20 °C	~ 20 min		
	+30 °C	~ 10 min		
<b>Waiting Time / Overcoating</b>	<b>Temperature</b>	<b>Min.</b>	<b>Max.</b>	<b>Full cure</b>
	+10 °C	~ 30 h	~ 3 d	~ 14 d
	+20 °C	~ 10 h	~ 2 d	~ 10 d
	+30 °C	~ 6 h	~ 1 d	~ 5 d

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

If in doubt apply a test area first.

### SUBSTRATE PREPARATION

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, SikaDur® and Sikagard® range of materials.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots must be removed by e.g. grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

#### MIXING

Prior to mixing stir part A mechanically. When all of part B has been added to part A mix continuously for 3 minutes until an uniform mixed has been achieved. Use a low speed electrical stirrer (300 - 400 rpm) to avoid air entrapment. To ensure proper mixing pour material into a clean container and stir again.

#### APPLICATION

Apply by brush, roller or airless spray.

#### CLEANING OF TOOLS

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

#### LIMITATIONS

This product may only be used by experienced professionals. Do not apply Sikagard®-62 on moist substrates. Sag resistance on vertical surface is approx. 200µm. Freshly applied Sikagard®-62 must be protected from damp, condensation and water for at least 24 hours. For exact colour matching ensure the use of the same control batch numbers.

#### BASIS OF PRODUCT DATA

All technical data stated in this 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 declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

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## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

#### DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type sb) is 550 / 500 g/l (Limits 2007 / 2010) for the ready to use product. The maximum content of Sikagard®-62 is < 500 g/l VOC for the ready to use product.

#### 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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