

# PRODUCT DATA SHEET

## Sikagard<sup>®</sup>-62

### 2-part epoxy-based protective coating

#### DESCRIPTION

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

#### USES

Sikagard<sup>®</sup>-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, including potable water reservoirs
- 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
- Can be used for contact with potable water

#### ENVIRONMENTAL INFORMATION

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

#### CERTIFICATES AND TEST REPORTS

- CE-Certification as coating for concrete protection according the requirements of EN 1504-2
- Chemical Resistance Chart
- DWI Approval according to Water Quality Regulation 31

#### PRODUCT INFORMATION

<b>Composition</b>	2 Part epoxy-based resin		
<b>Packaging</b>	Part A	7.5 kg drums	
	Part B	2.5 kg drums	
	Part A + B	10.0 kg set	
<b>Appearance / Colour</b>	RAL 7032 (pebble grey) and light grey, other on request		
<b>Shelf Life</b>	12 months from date of production		
<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. Protect from direct sunlight.		
<b>Density</b>	Part A	~1.45 kg/l	(EN ISO 2811-1)
	Part B	~1.02 kg/l	
	Mixed product	~1.37 kg/l	

Density values determined at +23 °C

Solid Content	~100 %
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## 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 at request)	
Temperature Resistance	<b>Exposure to dry heat</b>	<b>Temperature</b>
	Permanent	+50 °C
	max. 7 days	+80 °C
	max. 12 hours	+100 °C
Permeability to Water Vapour	$S_d = 44$ m (Class II) (EN ISO 7783)	
Permeability to Carbon Dioxide	$S_d = 711$ m (EN 1062-6)	
Service Temperature	-30 °C to +50 °C	
Water Penetration After Capillary Absorption	< 0.01 kg/(m <sup>2</sup> ·h <sup>0.5</sup> ) (EN 1062-3)	
Compressive Strength	Class B <sub>2f</sub> (EN 13501-1)	

## APPLICATION INFORMATION

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

## BASIS OF PRODUCT DATA

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.

## LIMITATIONS OF USE

For professional use only!

## IMPORTANT CONSIDERATIONS

- Do not apply Sikagard®-62 on moist substrates.
- Sag resistance on vertical surface is approx. 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.

#### 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.

#### Sika Kimia Sdn. Bhd.

Lot 689, Nilai Industrial Estate,  
71800 Nilai, Negeri Sembilan D.K.  
Malaysia  
Phone: +606-7991762  
e-mail: info@my.sika.com  
Website: www.sika.com.my



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## 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 (300–400 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/m<sup>2</sup>.

After drying of the first layer, apply the second layer with a minimum consumption of 300 g/m<sup>2</sup>. Two layers are mandatory.

Optionally a third layer can be applied for extra protection in case of very harsh conditions to be expected.

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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