

# PRODUCT DATA SHEET

## Sikagard<sup>®</sup>-62

### 2-part epoxy 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
- 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

#### PRODUCT INFORMATION

<b>Composition</b>	Epoxy resin	
<b>Packaging</b>	Part A	3.75 kg drums
	Part B	1.25 kg drums
<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.	

Appearance and colour	RAL 7032 (pebble grey), other on request		
Density	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			

## TECHNICAL INFORMATION

Shore D Hardness	~80	(DIN 5305)	
Mechanical resistance	Taber Abraser CS 10/ 1000/ 1000	24.4mg	(ASTM D 4060)
	Taber Abraser CS 17/ 1000/ 1000	70 mg	
	Taber Abraser H 22/ 1000/ 1000	560.6mg	
Tensile adhesion strength	> 1.5 N/mm <sup>2</sup> to concrete	(ISO 4624)	
Temperature resistance	<b>Exposure</b>	<b>Dry heat</b>	
	Permanent	+50 °C	
	max. 7 days	+80 °C	
	max. 12 hours	+100 °C	
Chemical resistance	Please contact Sika technical service for specific information.		
Systems	Levelling layer (if required)	Sikagard® 720 EpoCem	
	<b>Roller coating</b>		
	Primer*	1 x Sikafloor® -156 or Sikafloor -161® or Sikagard®-62	
	Coating	2 - 3 x Sikagard®-62	
	<b>Lamination (1.5 - 2.0 mm):</b>		
	Primer*	1 x Sikafloor® -156 or Sikafloor -161® or Sikagard®-62	
	Lamination layer	1 - 2 x Sikagard®-62 + 225g/m <sup>2</sup> glass fibre fabric 1 x Sikagard®-62 + 30g/m <sup>2</sup> glassfibre Surface Mat	
Sealer	1 x Sikagard®-62		
*optional, only recommended for use on strongly absorbent surface			

## APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 3 : 1 by weight		
Consumption	<b>Coating System</b>	<b>Product</b>	<b>Consumption</b>
	Levelling Layer (if required)	Sikagard® -720 Epo-Cem®	~2.0 kg/m <sup>2</sup> per mm thickness
Consumption	<b>Roller Coating System</b>	<b>Product</b>	<b>Consumption</b>
	Coating System	Product	Consumption
	Primer	Sikafloor®-156/-161/Sikagard®-62	~0.30 kg/m <sup>2</sup>
	Lamination layer	Sikagard®-62 + 225g/m <sup>2</sup> glass fibrefabric Sikagard®-62 + 30g/m <sup>2</sup> glass fibre Surface Mat	~0.8 kg/m <sup>2</sup> /coat ~0.3 kg/m <sup>2</sup>
	Sealer	Sikagard®-62	~0.15 kg/m <sup>2</sup> /coat

Notes:

- Sikagard® -720 EpoCem® can be applied in a range from 0.5mm to 3mm thickness per layer.

- The consumption should be controlled in 100g/m<sup>2</sup> if sprayed on the steel substrate!
- There figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.

<b>Layer thickness</b>	~0.1 mm per layer			
<b>Ambient air temperature</b>	+8 °C min. / +40 °C max.			
<b>Relative air humidity</b>	< 80 %			
<b>Substrate temperature</b>	+8 °C min. / +40 °C max. Minimum 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 to overcoating</b>	<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	~ 10days
	+30 °C	~ 6 hours	~ 1 day	~ 5 days

## 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.

## 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.

### 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

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.

On high absorbent, non-sound, contaminated, not cement based substrates precautions have to be taken and a suitable primer has to be used.

### SUBSTRATE PREPARATION

#### Concrete Substrate

Concrete substrate must be prepared mechanically to achieve an open textured surface.

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® rendering and levelling mortar.

#### 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. When all of part B has been added to part A 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.

## APPLICATION

Apply by brush, roller or airless spray.

## CLEANING OF EQUIPMENT

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

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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.



### PRODUCT DATA SHEET

Sikagard®-62

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