BUILDING TRUST

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

Sikagard®-62 is a construction products which only should be applied by trained applicators.

- 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

FEATURES

- Hard surfaces – excellent abrasion resistance
- Excellent adhesion to concrete, masonry and steel surfaces
- Good resistance against wide range of industrial chemicals
- Easy application – simple mixing and application procedures
- Hygienic – impervious finish provides easily cleaned surfaces
- Suitable for contact with food and potable water

SUSTAINABILITY

Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings

CERTIFICATES AND TEST REPORTS

- Coating for concrete protection according the requirements of EN 1504-2:2004, Declaration of Performance 020606010010000000011008, certified by FPC Notified Body and provided with CE marking
- WRAS, test report No. M104991, 2011, Contact with water for wholesome purposes according BS 6920-1:2000

PRODUCT INFORMATION

Composition	Epoxy resin	
Packaging	Part A	9.0 kg set
	Part B	3.0 kg set
Appearance and colour	RAL 7032 (pebble grey), other on request	
Shelf life	Part A: 12 months Part B: 12 months From date of production if stored properly.	
Storage conditions	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.	

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		
Solid content	~ 100 %		

TECHNICAL INFORMATION

Shore D Hardness	~80			(DIN 5305)
Mechanical resistance	Taber Abraser	CS 10/ 1000/ 1000	24.4 mg	(ASTM D 4060)
	Taber Abraser	CS 17/ 1000/ 1000	70 mg	
	Taber Abraser	H 22/ 1000/ 1000	560.6 mg	
Tensile adhesion strength	> 1.5 N/mm² to concrete			(ISO 4624)
Chemical resistance	Please contact Sika technical service for specific information.			

Temperature resistance

Exposure	Dry heat
Permanent	+50°C
max. 7 days	+80°C
max. 12 hours	+100°C

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 3 : 1 by weight
Consumption	~0.30 kg/m² per layer (min. recommendation is two layers or depend consumption required)
Layer thickness	~0.2 mm per layer (min. recommendation is two layers or depend thickness 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

Temperature	Time
+10°C	~30 min
+20°C	~20 min
+30°C	~10 min

Curing time

At +20 °C,	
Touch dry	3 hours
Top coat	16 hours
Full cure	7 days

Waiting time to overcoating

Temperature	Min.	Max.	Full cure
+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 Product 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

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.

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

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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 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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