

PRODUCT DATA SHEET

Sikagard®-63 N

2-PART EPOXY PROTECTIVE COATING

DESCRIPTION

Sikagard®-63 N is a two part, rigid, total solid, coloured 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®-63N 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 1504-2/2004.

PRODUCT INFORMATION

Chemical base	Epoxy resin	
Packaging	Part A	8.70 kg can
	Part B	1.3 kg can
Appearance / Colour	Resin - Part A:	Coloured, liquid
	Hardener - Part B:	Transparent, liquid
	Pebble grey (~ RAL 7032). Additional colour shades on request. Under sun radiation it may come to discolouration and colour deviation; this has no influence to the function of the coating.	
Shelf life	12 month from date of production	
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	Mixed resin ~ 1.35 kg/L	(EN ISO 2811-1)
	Density values determined at +23 °C	
Solid content	~100 %	

TECHNICAL INFORMATION

Tensile Adhesion Strength	~1.5 N/mm ² to concrete ~15 N/mm ² to steel ~10 N/mm ² to aluminium	(ISO 4624) (EN 24624) (EN 24624)
Chemical Resistance	For further information please contact Sika Technical Service.	
Thermal Resistance	Exposure Permanent max. 3 days	Dry heat +40 °C +60 °C
Diffusion Resistance to Water Vapour	μH ₂ O ~ 100 000	(EN ISO 7783-1)

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 83 : 17 by weight			
Consumption	~ 0.15 kg/m ² per layer			
Layer Thickness	~ 0.1 mm per layer			
Ambient Air Temperature	+10 °C ... +30 °C			
Relative Air Humidity	< 80 %			
Substrate Temperature	+10 °C ... +40 °C ≥ 3 °C above dew point, beware of condensation			
Pot Life	Temperature	Time		
	+10 °C	~ 30 min		
	+20 °C	~ 20 min		
	+30 °C	~ 10 min		
Waiting Time / Overcoating	Temperature	Min.	Max.	Full Cure
	+10 °C	9 h	3 d	14 d
	+20 °C	5 h	2 d	9 d
	+30 °C	4 h	1 d	5 d

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm². 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 Sikagard®, Sikafloor®, SikaDur® and Sika MonoTop® 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 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, short piled 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®-63 N on moist substrates. Sag resistance on vertical surface is < 100µm. Sikagard®-63 N cannot be used to produce glass fibre reinforced linings. Freshly applied Sikagard®-63 N must be protected from rain, condensation and water for at least 24 hours. For exact colour matching ensure the use 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.

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 500 g/l (Limits 2010) for the ready to use product. The maximum content of Sikagard®-63 N 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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