

PRODUCT DATA SHEET

Sikagard[®]-63 N AU

NOVOLAC EPOXY CHEMICAL RESISTANT PROTECTIVE COATING

DESCRIPTION

Sikagard[®]-63 N AU is a two part, novolac epoxy resin based, chemical resistant, protective coating. It can be used on many types of structures or elements for cementitious, and epoxy resin binder substrates. The chemical resistant properties provides surface protection from aggressive chemicals that can cause rapid degradation.

USES

Sikagard[®]-63 N AU may only be used by experienced professionals.

Chemical resistant protective coating on:

- Concrete
- Stone
- Cementitious mortars
- Renderings
- Epoxy cement
- Epoxy resin-based products

Chemical resistant protective lining for:

- Silos
- Bund linings
- Chemical mixing tanks
- Chemical containment tanks
- Fuel and oil tanks
- Sludge tanks
- Industrial chemical areas

FEATURES

- Good chemical resistance
- Good temperature resistance
- Low VOC emissions
- High build
- Impervious to liquids
- Easy to mix
- Applied by brush, roller or airless spray (using suitable sprayer machine)

PRODUCT INFORMATION

Composition	Epoxy resin	
Packaging	Part A	205 kg drum, 8.7 kg tin
	Part B	205 kg drum, 1.3 kg tin
Refer to current price list for packaging variations.		
Appearance and colour	Standard colour: ~RAL 7032 (pebble grey) Other colours on request.	
Shelf life	12 months from date of production	

Storage conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.		
Density	Part A: ~1.48 kg/l Part B: ~1.01 kg/l Resin mixed: ~1.4 kg/l Value at +20 °C		(EN ISO 2811-1)
Solid content by mass	~100 %		
Solid content by volume	~100 %		

TECHNICAL INFORMATION

Shore D Hardness	~80		
Tensile adhesion strength	> 1,5 N/mm ² to concrete (concrete failure)		(ASTM D7234-05)
Chemical resistance	Resistant to many chemicals. Contact Sika Technical Services Department for additional information.		
Temperature resistance	Exposure	Dry heat	
	Permanent	+40 °C	
	Maximum 3 days	+60 °C	

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 87 : 13 by weight			
Consumption	~0.25 - 0.40 kg/m ² per layer			
Layer thickness	~0.17 - 0.28 mm per layer			
Ambient air temperature	+10 °C min. / +30 °C max.			
Relative air humidity	≤ 80 %			
Dew point	Beware of condensation. The substrate and uncured applied floor material must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the finish.			
Substrate temperature	+10 °C min. / +40 °C max.			
Pot Life	Temperature	Time		
	+10 °C	~30 minutes		
	+20 °C	~20 minutes		
	+30 °C	~10 minutes		
Waiting time to overcoating	Temperature	Min.	Max.	Full Cure
	+10 °C	~9 hours	~3 days	~14 days
	+20 °C	~5 hours	~2 days	~9 days
	+30 °C	~4 hours	~1 day	~5 days

SYSTEM INFORMATION

Systems

Standard Three Coat System: (DFT: from 600um - 800um)

Layer system	Product
Primer	Sikafloor®-160 HC or Sikafloor® 161 HC
1 st Coat	Sikagard®-63 N AU
2 nd Coat	Sikagard®-63 N AU

Fibreglass Laminate System: (DFT: from 1000um - 1200um) Subject to Glass thickness

Layer system	Product
Primer	Sikafloor®-160 HC
Laminate	Sikafloor®-160 HC with Fibreglass
1 st Coat	Sikagard®-63 N AU
2 nd Coat	Sikagard®-63 N AU

Sikagard®-720 EpoCem® ID System: (DFT: 1200um +) Subject to thickness of Sikagard®-720 EpoCem® ID: Typically used on High Wear, Damaged or High moisture content substrate applications:

Layer system	Product
Temporary moisture barrier (TMB)	Sikagard®-720 EpoCem® ID
1 st Coat	Sikagard®-63 N AU
2 nd Coat	Sikagard®-63 N AU

Please refer to individual Product Data Sheets and consult the Sika Technical Department for specific Consumption Priming and Coverage Information pertaining to project requirements: Please see Important Considerations section at the bottom of this PDS.

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®-63 N AU on moist substrates.
- Sag resistance on vertical surface is < 300 µm.
- Protect freshly applied product from rain, condensation and water for at least 24 hours.
- For consistent colour matching, ensure the Sikagard®-63 N AU in each area is applied from the same control batch numbers.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments, loose friable materials and any other surface contaminants that could affect adhesion.

SUBSTRATE PREPARATION

Concrete / Stone / Cementitious mortars & rendering

- Concrete must be at least 3–6 weeks old.
- Substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product thickness.

- High spots can be removed by grinding.
- Weak substrates must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using products from the Sikafloor®, Sikadur®, Sikagard® and Sika Monotop® range of materials. Products must be cured before applying Sikagard®-63 N AU.

Epoxy resin-based products

Surfaces must be prepared by abrading using suitable equipment.

General

- On high absorbent, non-cementitious based substrates a suitable primer must be used. Contact Sika Technical Services Department for additional information.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by vacuum extraction equipment.
- Avoid dew point conditions before and during product application.

MIXING

Prior to mixing all parts, mix part A (resin) using an electric single paddle mixer (300–400 rpm) or other similar equipment to mix liquid and all the coloured pigment until a uniform colour has been achieved. Add part B (hardener) to part A and mix part A + B continuously for ~2.5 minutes until a uniformly coloured mix has been achieved. To ensure thorough mixing, pour materials into a clean container and mix again for at least ~1.0 minute to achieve a smooth consistent mix.

Excessive mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a straight edge trowel or spatula at least once to ensure complete mixing. Mix full units only. Mixing time for A+B = 2.5 to 3.5 minutes.

APPLICATION

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Prior to application, confirm substrate moisture content, relative air humidity, dew point, substrate, air and product temperatures.

Apply Sikagard®-63 N AU onto the prepared substrate evenly using a roller, brush or airless spray (using suitable sprayer machine) at the required consumption rate.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with thinner immediately after use. Hardened 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.

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