

## PRODUCT DATA SHEET

# Sikagard<sup>®</sup>-270 Wallcoat

2-part water based epoxy seal coat

### DESCRIPTION

Sikagard<sup>®</sup>-270 Wallcoat is two part, water based, coloured epoxy resin based seal coat, which cures to form a semi mat and easy to clean finish. Sikagard<sup>®</sup>-270 Wallcoat is economical like a water based emulsion and durable as an epoxy based coating. Suitable to use in hot and tropical climatic conditions.

### USES

Sikagard<sup>®</sup>-270 Wallcoat may only be used by experienced professionals.

- Application on concrete and cementitious substrates
- Coloured seal coat for interior wall surfaces
- Suitable for clean rooms
- Suitable for production facilities in the food and beverage industry, pharmaceutical industry, car parks, storage and logistic areas, etc.
- Hospitals
- As a pollution concentration protection for tunnel walls and galleries.
- Electronic industry

### CHARACTERISTICS / ADVANTAGES

- Good mechanical and chemical resistance
- High build
- Impervious to liquids
- Easy to clean
- High resistance to carbonation
- Excellent decontamination properties
- Good opacity
- Low odour
- Easy to mix and to apply
- Economic and environmentally friendly.
- Hygienic
- Durable and good bond on damp surfaces

### PRODUCT INFORMATION

<b>Composition</b>	Water dispersed epoxy	
<b>Packaging</b>	Part A	15 kg unit
	Part B	3 kg unit
	Part A+B	18 kg ready to mix units
<b>Appearance / Colour</b>	Available in various colour shades. Applied colours selected from colour charts will be approximate. Under direct sun light there might be some discolouration and colour variation, this has no influence on the function and performance of the coating.	
<b>Shelf life</b>	12 months from date of production	

<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.	
<b>Density</b>	Part A	~1.48 kg/l
	Part B	~1.16 kg/l
	Mixed resin	~1.42 kg/l
All Density values at +25°C		
<b>Solid content by weight</b>	~63%	
<b>Solid content by volume</b>	~44%	

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~70 (28 d/+23°C)	(ASTM D2240)
<b>Abrasion resistance</b>	<100 mg (CS 10/1000/1000) (14 days / +23 °C)	(ASTM D4060) Taber Abraser Test
<b>Tensile adhesion strength</b>	> 1.5 N/mm <sup>2</sup> (or concrete failure)	(ASTM C1583)
<b>Chemical resistance</b>	Resistant to many chemicals. Contact Sika Technical Services for additional information.	
<b>Temperature resistance</b>	<b>Exposure</b>	<b>Dry Heat</b>
	Permanent	+50°C
	Short-term max. 3 d	+80°C
	Short-term max. 12 h	+100°C

## SYSTEMS

Systems	Coating system	Product	Consumption
	Primer	Sikagard®-270 Wallcoat +5% pbw water	~0.15-0.20 kg/m <sup>2</sup>
	Base Coat	1-2 x Sikagard®-270 Wallcoat	~0.15-0.25 kg/m <sup>2</sup> per coat
	Top Coat	Sikagard®-270 Wallcoat	~0.15-0.25 kg/m <sup>2</sup>

This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage, etc..

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Part A : Part B = 5 : 1 by weight	
<b>Ambient air temperature</b>	+10°C min. / +30°C max.	
<b>Relative air humidity</b>	< 75%	
<b>Dew point</b>	Beware of condensation! The substrate and uncured coating must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the wall finish. Note: Low temperatures and high humidity conditions increase the probability of blooming.	
<b>Substrate temperature</b>	+10 °C min. / +30 °C max.	
<b>Substrate moisture content</b>	< 6% pbw moisture content. Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene sheet).	
<b>Pot Life</b>	Temperature	Time
	+20 °C	~90 min
	+30 °C	~60 min

## Waiting time to overcoating

Before applying Sikagard®-270 Wallcoat - on Sikagard®-270 Wallcoat allow:

Temperatures	Minimum	Maximum
+20 °C	180 min	7 days
+30°C	150 min	5 days

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

## Applied product ready for use

Temperature	Tack Free	Light Exposure	Full Cure
+20 °C	~6 hours	~3 days	~7 days
+30 °C	~3 hours	~2 days	~5 days

Note: Times are approximate and will be affected by changing ambient conditions

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum tensile adhesion strength of 1,5 N/mm<sup>2</sup>.
- Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- Cementitious 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.
- Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using appropriate products from the Sika-floor®, Sikadur® and Sikagard® range of materials.
- 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.

### MIXING

Prior to mixing stir part A mechanically using a low speed single paddle electric stirrer (300–400 rpm) to mix liquid and all the coloured pigment until a uniform colour has been achieved.

Add part B (hardener) to part A and mix continuously for 2,0 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. Total mixing time 3,0 minutes. Over 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 flat or straight edge trowel at least once to ensure complete mixing.

Mix full units only.

### APPLICATION

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

If moisture content is >6% pbw, Sikagard®-720 Epo-Cem® may be applied as a T.M.B. (temporary moisture barrier) system.

Sikagard®-270 Wallcoat can be applied either by short-piled roller, brush or airless spray.

Confirm waiting /overcoating time has been achieved before applying subsequent products.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

### FURTHER INFORMATION

- Sika® Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems
- Sika® Method Statement: Mixing & Application of Flooring Systems

## IMPORTANT CONSIDERATIONS

- This product may only be used by experienced professionals.
- Apply in minimum two coats, dependent on requirements.
- With relative humidity >75% the over coating time increases by 24 hours.
- Do not apply Sikagard®-270 Wallcoat on gypsum plaster boards, if in use for wet areas, e.g. shower rooms, etc.
- Always ensure good ventilation when using Sikagard®-270 Wallcoat in confined areas, to ensure drying and full curing.
- Freshly applied Sikagard®-270 Wallcoat should be protected from condensation and water for at least 24 hours.
- The gloss of the applied material is influenced by humidity, temperature and absorbency of the substrate.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikagard®-270 Wallcoat in each area is applied from the same control batch numbers.
- For spray application the use of protective health & safety equipment is mandatory!

## 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

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 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.

## 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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All products are supplied  
under a management  
system certified to conform  
to the requirements of the  
quality, environmental and  
occupational health &  
safety standards ISO 9001,  
ISO 14001 and OHSAS  
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