

# PRODUCT DATA SHEET

## Sikagard®-Wallcoat ID

### TWO PART WATER DISPERSED EPOXY COATING

#### DESCRIPTION

Sikagard®-Wallcoat is a coloured, water dispersed two part epoxy resin based coating.

#### USES

- Coloured sealer coat for the wall surfaces of interior rooms.
- For concrete or cementitious substrates.
- Particularly suitable for clean rooms in the electric and pharmaceutical industries.

#### CHARACTERISTICS / ADVANTAGES

- Good Chemical and mechanical resistance
- Decontaminable
- Solvent free
- Water dilutable
- Spray application is possible

#### APPROVALS / STANDARDS

Conforms to the requirements for decontamination ability (according to BS 4247, IRAS Ltd., St. Helens, UK and to DIN 25 415-1 Report No. 430.03.01wü1, Forschungszentrum Jülich, Germany)

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Epoxy	
<b>Packaging</b>	Part A	4,68 kg and 14.04 kg containers
	Part B	1.32 kg and 3.96 kg containers
	Part A+B:	6 kg and 18 kg ready to mix units (6 kg as unipacs)
	<i>Bulk packaging</i>	
	Part A:	200 kg drums
	Part B:	200 kg drums
<b>Appearance / Colour</b>	Resin - part A:	Liquid, coloured
	Hardener - part B:	Liquid, transparent
	Available colour shades: ca. RAL 9003, 9010, 7032, 7035	
	Other colour shades on request. Under direct sun radiation there may be some discolouration and colour deviation, this has no influence on the function and performance of the coating.	
<b>Shelf-Life</b>	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging.	

<b>Storage Conditions</b>	Store in dry conditions at temperatures +15 °C – +30 °C. Protect from frost.		
<b>Density</b>	Part A:	~1.70 kg/L	(DIN EN ISO 2811-1)
	Part B:	~1.09 kg/L	(All density value at +23 °C)
	Mixed Resin:	~1.47 kg/L	
<b>Solid content by weight</b>	~67 %		
<b>Solid content by volume</b>	~51 %		

## TECHNICAL INFORMATION

<b>Abrasion Resistance</b>	120 mg (CS 10/1000/1000) (14 days, +23 °C)	(DIN 53 109, Taber Abrader Test)								
<b>Chemical Resistance</b>	Resistant to many chemicals. Please ask for a detailed chemical resistance table									
<b>Thermal Resistance</b>	<table border="1"> <thead> <tr> <th><u>Exposure*</u></th> <th><u>Dry heat</u></th> </tr> </thead> <tbody> <tr> <td>Permanent</td> <td>+50 °C</td> </tr> <tr> <td>Short-term max. 7 days</td> <td>+80 °C</td> </tr> <tr> <td>Short-term max. 12 hours</td> <td>+100 °C</td> </tr> </tbody> </table>	<u>Exposure*</u>	<u>Dry heat</u>	Permanent	+50 °C	Short-term max. 7 days	+80 °C	Short-term max. 12 hours	+100 °C	
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Permanent	+50 °C									
Short-term max. 7 days	+80 °C									
Short-term max. 12 hours	+100 °C									
	Short-term moist/wet heat* up to +80 °C where exposure is only occasional (i.e. during steam cleaning etc.)									
	*With no simultaneous chemical attack.									

## SYSTEM INFORMATION

<b>Systems</b>	<b>Primer</b>
	On gypsum plaster boards: 1 x Sikafloor®-156 + 20 wt.-% Thinner C
	On mortars: 1 x Sikafloor®-156 + 20 wt.-% Thinner C or 1 x Sikagard®-wallcoat Primer + 5 wt.-% water
	On concrete: 1 x Sikafloor®-156 + 20 wt.-% Thinner C or 1 x Sikagard®-Wallcoat Primer + 5 wt.-% water or 1 x Sikagard®-Wallcoat + 5 wt.-% water
	Sealer coat: 2 - 3 x Sikagard®-Wallcoat (roller application) or 1 - 2 x Sikagard®-Wallcoat (spray application)

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : part B = 78 : 22 (by weight)		
<b>Consumption</b>	<b>Coating System</b>	<b>Product</b>	<b>Consumption</b>
	Priming	Sikafloor®-156 + 20 wt.-% Thinner C	~80 gr/m <sup>2</sup>
		Sikagard®-Wallcoat Primer + 5 wt.-% water	~120 gr/m <sup>2</sup>
		Sikagard®-Wallcoat + 5 wt.-% water	~140 gr/m <sup>2</sup>
	Sealer coat	2 - 3 x Sikagard®-Wallcoat (roller application)	100 - 150 g/m <sup>2</sup> per coat
		1 - 2 x Sikagard®-Wallcoat (spray application)	150 - 250 g/m <sup>2</sup> per coat
	These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.		
<b>Layer Thickness</b>			
<b>Ambient Air Temperature</b>	+10 °C min. / +30 °C max.		

<b>Relative Air Humidity</b>	75% r.h. max.	
<b>Dew Point</b>	Beware of condensation! The substrate and uncured floor coating must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.	
<b>Substrate Temperature</b>	+10 °C min. / +30 °C max.	
<b>Substrate Moisture Content</b>	< 6% pbw moisture content. Test method: Sika-Tramex meter or CM-measurement. No rising moisture according to ASTM (Polyethylene-sheet).	
<b>Pot Life</b>	<u>Substrate temperature</u>	<u>Foot traffic</u>
	+10 °C	~120 minutes
	+20 °C	~90 minutes
	+30 °C	~30 minutes
<b>Curing Time</b>	Before applying Sikagard®-Wallcoat on Sikafloor®-156 allow:	
	<u>Substrate temperature</u>	<u>Min. waiting time</u> <u>Max. waiting time</u>
	+10 °C	24 hours      4 days
	+20 °C	12 hours      2 days
	+30 °C	6 hours      1 day
	Before applying Sikagard®-Wallcoat on Sikagard®-Wallcoat Primer allow:	
	<u>Substrate temperature</u>	<u>Min. waiting time</u> <u>Max. waiting time</u>
	+10 °C	48 hours      7 days
	+20 °C	15 hours      5 days
	+30 °C	10 hours      3 days
	Before applying Sikagard®-Wallcoat on Sikagard®-Wallcoat allow:	
	<u>Substrate temperature</u>	<u>Min. waiting time</u> <u>Max. waiting time</u>
	+10 °C	24 hours      7 days
	+20 °C	12 hours      5 days
	+30 °C	10 hours      3 days
	Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.	
<b>Applied Product Ready for Use</b>	<u>Substrate temperature</u>	<u>Tack free time</u> <u>Full cure</u>
	+10 °C	~2 days      ~10 days
	+20 °C	~15 hours      ~7 days
	+30 °C	~10 hours      ~5 days
	Note: Times are approximate and will be affected by changing ambient conditions.	

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.
- 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.
- Concrete substrates must be prepared mechanically using a abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve a profiled open textured surface.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.

- Repairs to substrate, filling of blowholes/voids and surface levelling can be carried out using appropriate products from the Sikafloor®, SikaDur® and SikaGard® range of materials.
- The concrete or screed substrate has to be primed or levelled up 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 2 minutes until a uniform mix has been achieved.
- To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.
- Over mixing must be avoided to minimize air entrainment

## MIXING TOOLS

Sikagard®-Wallcoat must be mechanically mixed using an electric power stirrer (300 - 400 rpm) or other suitable equipment.

## APPLICATION

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

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

### Primer

Make sure that a continuous, pore free coat covers the substrate. Apply the Sikafloor® primer by brush or roller.

### Wall coating

Apply Sikagard®-Wallcoat by roller.

Sikagard®-Wallcoat can also be applied by airless spray (spray pressure ~ 300 bar, nozzles with a diameter of 0.53 mm / 0.021 inch and a spray angle 60°).

## CLEANING OF TOOLS

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

## LIMITATIONS

- Do not apply Sikagard®-Wallcoat on substrates in which significant vapour pressure may occur.
- Freshly applied Sikagard®-Wallcoat must be protected from damp, condensation and water for at least 24 hours.
- Avoid puddles on the surface with the primer.
- Always ensure a adequate fresh air ventilation when using Sikagard®-Wallcoat in a confined space to avoid curing problems.
- Tools  
Recommended supplier of tools:  
PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, [www.polyplan.com](http://www.polyplan.com)
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikagard®-Wallcoat in each area is applied from the same control batch numbers.

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- For spray application the use of protective health & safety equipment is mandatory!
- As waterborne epoxy based material application is very sensitively with humidity, temperature, curing & application time different may cause of different shade.

## 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.

## 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.

## 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.