

PRODUCT DATA SHEET

Sikagard® WallCoat ID

TWO PART WATER DISPERSED EPOXY COATING



DESCRIPTION

Sikagard® WallCoat ID is a coloured, water dispersed two part epoxy resin based coating.

USES

Sikagard® WallCoat ID may only be used by experienced professionals.

- 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
- Excellent decontamination properties
- Solvent free
- Water dilutable
- Impervious to liquids
- Easy to clean
- Easy to mix and to apply

APPROVALS / STANDARDS

Conforms to the requirements for Cleanroom Suitable Materials CSM, Report No. SI 1811-1078 Fraunhofer, Germany :

- Particle emission (CSM classification / VDI 2083 part 17 according to ISO 14644-1)
- Outgassing (CSM classification / VDI 2083 part 17 according to ISO 14644-8)

PRODUCT INFORMATION

Chemical Base	Epoxy	
Packaging	Part A :	14.04 kg and 18.72 kg containers
	Part B :	3.96 kg and 5.28 kg containers
	Part A+B:	18 kg and 24 kg ready to mix units
	<i>Bulk packaging</i>	
	Part A:	270 kg drums
	Part B:	200 kg drums
Appearance / Colour	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.	

Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging.		
Storage Conditions	Store in dry conditions at temperatures +15 °C – +30 °C. Protect from frost.		
Density	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	
Solid content by weight	~67 %		
Solid content by volume	~51 %		

TECHNICAL INFORMATION

Abrasion Resistance	120 mg (CS 10/1000/1000) (14 days, +23 °C)	(DIN 53 109, Taber Abrader Test)								
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table									
Thermal Resistance	<table border="1"> <thead> <tr> <th>Exposure*</th> <th>Dry heat</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>	Exposure*	Dry heat	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

Systems	On concrete, mortars, and gypsum plaster boards:	
	Primer	1 x Sikagard® WallCoat ID + 5 % water
	Coat	2 - 3 x Sikagard® WallCoat ID

APPLICATION INFORMATION

Mixing Ratio	Part A : part B = 78 : 22 (by weight)		
Consumption	Coating System	Product	Consumption
	Priming	Sikagard® WallCoat ID + 5% water	~140 g/m²
	Coat	2 - 3 x Sikagard® WallCoat ID	100 - 150 g/m² per coat
	These figures are theoretical and do not include for any additional material required due to surface porosity, surface colour, surface profile, variations in level and wastage etc.		
Ambient Air Temperature	+10 °C min. / +30 °C max.		
Relative Air Humidity	75% r.h. max.		
Dew Point	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.		
Substrate Temperature	+10 °C min. / +30 °C max.		
Substrate Moisture Content	< 6% pbw moisture content. Test method: Sika-Tramex meter or CM-measurement. No rising moisture according to ASTM (Polyethylene-sheet).		

Pot Life

Substrate temperature	Time
+10 °C	~120 min
+20 °C	~90 min
+30 °C	~30 min

Curing Time

Before applying Sikagard® WallCoat ID on Sikagard® WallCoat ID + 5% water allow:

Substrate temperature	Min. waiting time	Max. waiting time
+10 °C	48 hours	7 days
+20 °C	15 hours	5 days
+30 °C	10 hours	3 days

Before applying Sikagard® WallCoat ID on Sikagard® WallCoat ID allow:

Substrate temperature	Min. waiting time	Max. waiting time
+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.

Applied Product Ready for Use

Substrate temperature	Tack free time	Full cure
+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

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.

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.

LIMITATIONS

- This product may only be used by experienced professionals.
- With relative humidity >75% the over coating time increases by 24 hours.
- As waterborne epoxy based material application is very sensitively with humidity, temperature, curing & application time different may cause of different shade.
- Do not apply Sikagard® WallCoat ID on gypsum plaster boards when used in wet areas, i.e. shower rooms.
- Ensure good ventilation when applying Sikagard® WallCoat ID in confined areas to ensure full curing (avoid curing problems).
- Freshly applied Sikagard® WallCoat ID must be protected from damp, condensation and water for at least 24 hours.
- Do not apply Sikagard® WallCoat ID on substrates in which significant vapour pressure may occur.

- Avoid puddles on the surface with the primer.
- 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 ID in each area is applied from the same control batch numbers.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- 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.
- Concrete substrates must be prepared mechanically using 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 ID 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 Epo-Cem® HC 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 Sikagard® WallCoat ID + 5% water by brush or roller.

Wall coating

Apply Sikagard® WallCoat ID by roller.

CLEANING OF TOOLS

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

LOCAL RESTRICTIONS

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

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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