

# PRODUCT DATA SHEET

## Sikafloor®-269 CR

### 2-PART LOW PARTICLE AND ULTRA-LOW VOC/AMC EMISSION SELFSMOOTHING EPOXY RESIN SYSTEM

#### DESCRIPTION

Sikafloor®-269 CR is a two part, total solid, low particle and ultra-low VOC/AMC emission, self-smoothing epoxy resin system designed for cleanroom environments. "Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)"

#### USES

Sikafloor®-269 CR may only be used by experienced professionals.

Sikafloor®-269 CR is:

- Especially designed for the use in cleanroom environments, where ultra-low VOC/AMC and particle emissions are mandatory, such as optical goods, medical or space industry.
- Also suitable as a hard wearing course for many industries, such as automotive, pharmaceutical, storage facilities and warehouses.

#### CHARACTERISTICS / ADVANTAGES

- Ultra-low VOC/AMC emissions
- Low particle emissions
- Organo phosphate and phthalate free
- Good chemical and mechanical resistance
- Easy to clean
- Economical
- Liquid proof
- Total solid
- Gloss finish

#### ENVIRONMENTAL INFORMATION

##### LEED Rating

Sikafloor®-269 CR conforms to the requirements of LEED. EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings. SCAQMD Method 304-91 VOC Content <100 g/l

#### APPROVALS / STANDARDS

- Particle emission certificate Sikafloor-269 CR CSM Statement of Qualification - ISO 14644-1, class 5 - Report No. SI 0908-494 and GMP class A, Report No. SI1008-533.
- Outgassing emission certificate Sikafloor-269 CR: CSM Statement of Qualification - ISO 14644-8, class - 9.6 - Report No. SI 0908-494.
- Very good biological Resistance in accordance with ISO 846, CSM Report No. SI 1008-533.
- Fire classification in accordance with EN 13501-1, Report-No. 2008-B- 3883/04, MPA Dresden, Germany, September 2008.
- Outgassing Datasheet Sikafloor-269 CR (+90°) M+W Group, 12.4.2007.
- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance 02 08 01 02 045 0 000002 1008, certified by notified factory production control certification body 0921, certificate of conformity of the factory production control 2017, and provided with the CE marking.
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 02 08 01 02 045 0 000002 1008, certified by notified factory production control certification body 0921, certificate of conformity of the factory production control 2017, and provided with the CE marking.
- Indoor Air Quality Assessment-GOLD
- Eurofins Emission testing of Sikafloor®-269CR according to the AgBB-scheme and guidelines of the DiBt (AgBB – Committee for Health-related Evaluation of Building Products, DiBt – German Institute for Building Technology).



## PRODUCT INFORMATION

<b>Chemical Base</b>	Epoxy		
<b>Packaging</b>	Part A	24.9 kg containers	
	Part B	5.1 kg containers	
	Part A+B	30 kg ready to mix units	
<b>Appearance / Colour</b>	Resin - part A	coloured, liquid	
	Hardener - part B	transparent, liquid	
	RAL 7032, 1001 Other colours on request. Under sun light there will be some discolouration and colour variations; this has no influence on the function and performance of the coating.		
<b>Shelf Life</b>	24 months from date of production.		
<b>Storage Conditions</b>	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C.		
<b>Density</b>	Part A	~ 1.7 kg/l	(DIN EN ISO 2811-1)
	Part B	~ 1.0 kg/l	
	Mixed resin	~ 1.5 kg/l	
	All Density values at +23 °C		
<b>Solid content by weight</b>	~100 %		
<b>Solid content by volume</b>	~100 %		

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~84 (14 days / +23 °C)	(DIN 53 505)
<b>Abrasion Resistance</b>	50 mg (CS 10/1000/1000) (14 days / +23 °C) (EN ISO 5470-1 Taber Abraser Test) <small>*Values have been determined using quartz sand F 34 (0.1-0.3 mm) from Quarzwerke GmbH Frechen sand.</small>	
<b>Compressive Strength</b>	Resin: (filled 1:0.3 with F34*): ~ 85 N/mm <sup>2</sup> (7 days / +23 °C)	(EN 13892-2)
<b>Tensile Strength in Flexure</b>	Resin: (filled 1:0.3 with F34*): ~ 35 N/mm <sup>2</sup> (7 days / +23 °C)	(EN 13892-2)
<b>Tensile Adhesion Strength</b>	> 1.5 N/mm <sup>2</sup> (failure in concrete)	(ISO 4624)
<b>Chemical Resistance</b>	Resistant to many chemicals. Contact Sika technical service for specific information.	
<b>Thermal Resistance</b>	<b>Exposure*</b>	<b>Dry heat</b>
	Permanent	+50 °C
	*No simultaneous chemical and mechanical exposure.	

## SYSTEM INFORMATION

<b>Systems</b>	Please refer to the system data sheet of : Sikafloor® MultiDur ES-28 EQ      Smooth, Ultra-Low VOC, Clean Room Certified epoxy floor covering	
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## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : part B = 83 : 17 (by weight)
<b>Consumption</b>	~ 1.8—2.0 kg/m <sup>2</sup> applied as a self-smoothing wearing course These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc. For detailed info, please refer to the System data sheet Sikafloor® MultiDur ES-28 EQ.

<b>Ambient Air Temperature</b>	+15 °C min. / +30 °C max.		
<b>Relative Air Humidity</b>	80 % r.h. max.		
<b>Dew Point</b>	Beware of condensation! The substrate and uncured floor 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>	+15 °C min. / +30 °C max.		
<b>Substrate Moisture Content</b>	< 4 % 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>	<b>Temperature</b>	<b>Time</b>	
	+15 °C	~ 45 minutes	
	+20 °C	~ 30 minutes	
	+30 °C	~ 15 minutes	
<b>Curing Time</b>	Before overcoating Sikafloor®-269 CR allow:		
	<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
	+15 °C	24 hours	4 days
	+20 °C	12 hours	2 days
	+30 °C	8 hours	1 day

## 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.
- 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 blow holes 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 Sikafloor®, Sikadur® and Sikagard® range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush 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. When parts A and B have been mixed, add the quartz sand 0.1 - 0.3 mm and mix for a further 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 minimise air entrainment.

### Mixing Tools

Sikafloor®-269 CR must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

## APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point. If > 4% pbw moisture content, Sikafloor® EpoCem® may be applied as a temporary moisture barrier (T.M.B.) system.

### Levelling:

Rough surfaces need to be levelled first. Therefore use Sikafloor®-144 /-161/ -701 levelling mortar (see PDS).

### Wearing course smooth:

Sikafloor®-269 CR is poured, spread evenly by means of a serrated trowel.

After spreading the material evenly, turn the serrated trowel and smooth the surface in order to achieve an aesthetically higher grade of finish. Roll immediately (within max. 10 minutes of application) in two directions with a steel spiked roller to ensure even thickness and to remove entrapped air. To obtain the highest level of aesthetic finish, spike roll in two directions at a 90 degree angle, passing only once in each direction.

### CLEANING OF TOOLS

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

## MAINTENANCE

To maintain the appearance of the floor after application, Sikafloor®-269 CR must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc. using suitable detergents and waxes.

For further information regarding the cleaning of Sikafloor®-269 CR please refer to the "Sikafloor®- CLEANING REGIME".

## FURTHER DOCUMENTS

### Substrate Quality & Preparation

Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

### Application Instructions

Please refer to Sika Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".

### Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

## LIMITATIONS

- Do not apply Sikafloor®-269 CR on substrates with rising moisture.
- Do not blind the primer. Freshly applied Sikafloor®-269 CR must be protected from damp, condensation and water for at least 24 hours. Avoid puddles on the surface with the primer.
- For exact colour matching, ensure the Sikafloor®-269 CR in each area is applied from the same control batch numbers.

## 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 for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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 Sikafloor®-269 CR 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 recom-

mendations, 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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