Preliminary Product Data Sheet Edition 06/08/2012 Identification no: 02 08 01 02 045 0 000002 Sikafloor®-269 CR





Sikafloor[®]-269 CR

2-part low particle and ultra-low VOC/AMC emission selfsmoothing epoxy resin system

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



Product Data				
Form				
Appearance / Colours	Resin - part A: Hardener - part B:	coloured, liquid transparent, liquid		
	RAL 7032, 1001			
	Other colours on re	quest.		
	Under sun light the influence on the fur	re will be some discolor action and performance	uration and colour variation of the coating.	ons; this has no
Packaging	Part A: Part B: Part A+B:	24,9 kg containers 5,1 kg containers 30 kg ready to mix un	its	
Storage				
Storage Conditions / Shelf-Life	24 months from dat undamaged sealed and +30 °C.	te of production if store packaging, in dry conc	d properly in original, unc litions at temperatures be	pened and etween +5°C
Technical Data				
Chemical Base	Ероху			
Density	Part A: Part B: Mixed resin:	~ 1.7 kg/l ~ 1,0 kg/l ~ 1.5 kg/l	(DIN	EN ISO 2811-1)
	All Density values a	at +23℃		
Solid Content	~ 100 % (by volume	e) / ~ 100 % (by weight)	
Mechanical / Physical Properties				
Compressive Strength	Resin (filled 1:0.3 w	<i>v</i> ith F34*): ~ 85 N/mm ²	(7 days / +23℃)	(EN 13892-2)
Flexural Strength	Resin (filled 1:0.3 w	vith F34*): ~ 35 N/mm ²	(7 days / +23°C)	(EN 13892-2)
Bond Strength	> 1.5 N/mm ² (faile	ure in concrete)		(ISO 4624)
Shore D Hardness	84 (14 days / +2	(℃)		(DIN 53 505)
Abrasion Resistance	50 mg (CS 10/1000	0/1000) (14 days / +23°	C)(EN ISO 5470-1 (Tabe	r Abraser Test))
	*Values have been Quarzwerke GmbH	determined using quar Frechen sand.	tz sand F 34 (0.1-0.3 mm	n) from
Resistance				
Chemical Resistance	Resistant to many o	chemicals. Please ask f	or a detailed chemical re	sistance table.
Thermal Resistance				
	Exposure*		Dry heat	
	Short-term max. 7 d		+50 <i>°</i> C	
	Short-term moist/we (i.e. during steam c	et heat* up to +80 ℃ wł leaning etc.)	nere exposure is only occ	asional
	*No simultaneous che	emical and mechanical exp	oosure.	
USGBC	Sikafloor [®] -269 CR	conforms to the require	ments of LEED	
LEED Rating	EQ Credit 4.2: Low	-Emitting Materials: Pai	nts & Coatings	
	SCAQMD Method	304-91 VOC Content <	100 g/l	

System Information			
System Structure	Self-smoothing system: Primer : Wearing course:	1 x Sikafloor®-144/-161 1 x Sikafloor®-269 CR,	filled with quartz sand 0.1 - 0.3 mm
	Note: The system config not be changed.	gurations as described m	ust be fully complied with and may
Application Details			
Consumption / Dosage			
	Coating System	Product	Consumption
	Primer	Sikafloor [®] -144/-161	0.3 - 0.5 kg/m²
	Levelling (optional)	Sikafloor [®] -161 mortar	Refer to PDS of Sikafloor [®] -161
	Self-smoothing wearing course (Film thickness ~ 1.5 mm)	Sikafloor [®] -269 CR filled with quartz sand 0.1 - 0.3 mm (F34*)	Maximum 2.5 kg/m ² Binder + quartz sand Depending on the temperature the filling grade varies from:
			unfilled (2,5 kg/m²) 1 : 0.3 pbw (1.9 + 0.6 kg/m²)
	These figures are theore required due to surface etc. *All values have been de	etical and does not allow porosity, surface profile, etermined using quartz s	for any additional material variations in level and wastage and 0.1-0.3 mm from Quarzwerke
	GmbH Frechen sand. O such as filling grade, lev	ther quartz sand type wil velling properties and aes	I have an effect on the product, thetics.
	Generally, the lower the	temperature the less the	filling grade.
Substrate Quality	The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² .		
	The substrate must be or grease, coatings and su	clean, dry and free of all c rface treatments, etc.	contaminants such as dirt, oil,
	If in doubt apply a test a	rea first.	
Substrate Preparation	Concrete substrates mu or scarifying equipment surface.	st be prepared mechanic to remove cement laitanc	ally using abrasive blast cleaning ce and achieve an open textured
	Weak concrete must be voids must be fully expo	removed and surface de sed.	fects such as blowholes and
	Repairs to the substrate carried out using approp SikaGard [®] range of mat	, filling of blowholes/void priate products from the S erials.	s and surface levelling can be Sikafloor [®] , SikaDur [®] and
	The concrete or screed an even surface.	substrate has to be prime	ed or levelled in order to achieve
	High spots must be rem	oved by e.g. grinding.	
	All dust, loose and friable before application of the	e material must be comp product, preferably by b	letely removed from all surfaces rush and/or vacuum.
Application Conditions / Limitations			
Substrate Temperature	+15℃ min. / +30℃ max	κ.	
Ambient Temperature	+15℃ min. / +30℃ max	κ.	
Substrate Humidity	4% pbw moisture cont	tent.	
	Test method: Sika [®] -Trai	mex meter, CM-measure	ment or Oven-dry-method.
	No rising moisture acco	rding to ASTM (Polyethyl	ene-sheet).
Relative Air Humidity	80% r.h. max.		
Dew Point	Beware of condensation	n!	
	The substrate and uncu the risk of condensation	red floor must be at least or blooming on the floor	3℃ above dew point to reduce finish.

Application Instructions				
Mixing	Part A : part B = 83: 17 (by weight)			
Mixing Time	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 mix for a further 2 minutes until a uniform	ed, add the quartz sand 0.1 - 0.3 mm and mix n mix has been achieved.		
	To ensure thorough mixing pour ma achieve a consistent mix.	terials into another container and mix again to		
	Over mixing must be avoided to mir	imise air entrainment.		
Mixing Tools	Sikafloor [®] -269 CR must be thoroug (300 - 400 rpm) or other suitable eq	Sikafloor [®] -269 CR must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.		
Application Method /	Prior to application, confirm substra	te moisture content, r.h. and dew point.		
Tools	If > 4% pbw moisture content, Sikaf (temporary moisture barrier) system	If > 4% pbw moisture content, Sikafloor [®] EpoCem [®] may be applied as a T.M.B. (temporary moisture barrier) system.		
	<i>Levelling:</i> Rough surfaces need to be levelled first. Therefore use Sikafloor [®] -161 levelling mortar (see PDS).			
	<i>Wearing course smooth<u>:</u></i> 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.			
Potlife				
	Temperatures	Time		
	+15℃	~ 45 minutes		
	+20 <i>°</i> C	~ 30 minutes		
	+30 °C	~ 15 minutes		
Waiting Time /	Before applying Sikafloor [®] -269 CR	on Sikafloor [®] -144 allow:		
e . s. souling	Culture to to your eventure	Minimum		

Substrate temperature	Minimum	Maximum
+15℃	26 hours	4 days
+20 ℃	24 hours	2 days
+30℃	12 hours	1 day

Before applying Sikafloor[®]-269 CR on Sikafloor[®]-161 allow:

Substrate temperature	Minimum	Maximum
+15 <i>°</i> C	24 hours	3 days
+20 <i>°</i> C	12 hours	2 days
+30 <i>°</i> C	8 hours	1 day

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

Notes on Application / Limitations	This product may only be used by experienced professionals.
	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.
	<i>Tools:</i> Recommended supplier of tools: PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com Serrated trowel for smooth wearing layer: e.g. Large-Surface Scrapper No. 565, Toothed blades No. 25 Serrated trowel for textured wearing layer: e.g. Trowel No. 999 or Adhesive Spreader No.777, Toothed blades No. 23
	For exact colour matching, ensure the Sikafloor [®] -269 CR in each area is applied from the same control batch numbers.
Curing Details	
Applied Product ready	

	-			
for use	Temperature	Foot traffic	Light traffic	Full cure
	+15℃	~ 72 hours	~ 7 days	~ 21 days
	+20℃	~ 48 hours	~ 4 days	~ 7 days
	+30 <i>°</i> C	~ 24 hours	~ 2 days	~ 5 days
	Note: Times are app	proximate and will be a	affected by changing an	bient conditions.

Cleaning / Maintenance

Methods	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.
Value Base	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 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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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.

EU Regulation 2004/42 /OC - Decopaint Directive	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.



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