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Sikafloor[®]-262 ASN

2-part epoxy electrostatic conductive self-smoothing system

Product Description	Sikafloor [®] -262 ASN is a two part, self-smoothing, coloured epoxy resin coating. "Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)"				
Uses	 Decorative and protective electrostatic conductive self-smoothing system for concrete or cement screeds with normal up to medium heavy wear. 				
	Suitable as a wearing course in industries, such as automotive, electronic and pharmaceutical manufacturing, storage facilities and warehouses.				
	Particularly suitable for areas with sensitive electronic equipment e.g. CNC machinery, computer rooms, aircraft maintenance sheds, battery-charging rooms and areas subjected to high explosion risks etc.				
Characteristics /	Electrostatic conductive				
Advantages	Good chemical and mechanical resistance				
	Easy to clean				
	Economical				
	Liquid proof				
	Semi-gloss finish				
	 Slip resistant surface possible 				
Test					
Approval / Standards	Fire classification in accordance with EN 13501-1, Report-No. 2007-B-0181/17, MPA Dresden, Germany, May 2007.				
	Testing of electrostatic properties in accordance to IEC 61340, SP Institute, Test Report F900355:A, February 2009				
	Testing of Paint Compatibillity in acc. to BMW-Standart 09-09-132-5, Polymer Institute, Test Report P 5541, August 2008				
	Varnishability test according to VW-standard PV 3.10.7 (paint wetting impairment substances (PWIS)) like silicones, HQM GmbH, Test Report 09-09-132-4, 09.2009				



Product Data

Appearance / Colours	Resin - part A: Hardener - part I	coloured, liquid 3: transparent, liquid				
	Almost unlimited	Almost unlimited choice of colour shades.				
	achieve exact co orange), this effe	e of carbon fibers providing the c blour matching. With very bright c ect is increased. Under direct sur nd colour variation, this has no in he coating.	colours (such as yellow and h light there may be some			
Packaging	Part A: Part B: Part A+B:	21 kg containers 4 kg containers 25 kg ready to mix units				
Storage						
Storage Conditions / Shelf-Life	undamaged seal	date of production if stored prope led packaging, in dry conditions a rom direct sunlight.	erly in original, unopened and at temperatures between +5°C and			
Technical Data						
Technical Data Chemical Base	Ероху					
	Epoxy Part A: Part B: Mixed resin: Filled resin 1 : 0.	~ 1.69 kg/l ~ 1.03 kg/l ~ 1.53 kg/l 3 : ~ 1.69 kg/l	(DIN EN ISO 2811-1			
Chemical Base	Part A: Part B: Mixed resin:	~ 1.03 kg/l ~ 1.53 kg/l 3 : ~ 1.69 kg/l	(DIN EN ISO 2811-1			
Chemical Base	Part A: Part B: Mixed resin: Filled resin 1 : 0. All Density value	~ 1.03 kg/l ~ 1.53 kg/l 3 : ~ 1.69 kg/l	(DIN EN ISO 2811-1			
Chemical Base Density	Part A: Part B: Mixed resin: Filled resin 1 : 0. All Density value ~ 97% (by volum Resistance to gr	~ 1.03 kg/l ~ 1.53 kg/l 3 : ~ 1.69 kg/l es at +23°C ne) / ~97% (by weight)	、 			

Mechanical / Physical Properties

Froperties		
Compressive Strength	Resin: ~ 80 N/mm ² (28 days / +23°C)	(EN 196-1)
Flexural Strength	Resin: ~ 40 N/mm² (28 days / +23°C)	(EN 196-1)
Bond Strength	> 1.5 N/mm ² (failure in concrete)	(ISO 4624)
Shore D Hardness	77 (3 days / +23°C)	(DIN 53 505)
Abrasion Resistance	100 mg (CS 10/1000/1000) (7 days / +23°C)	(DIN 53 109 (Taber Abraser Test))

Resistance

Thermal Resistance

Exposure*	Dry heat	
Permanent	+50°C	
Short-term max. 7 d	+80°C	
Short-term max. 2 h	+100°C	
Short-term moist/wet heat* up to +80°C where exposure is only occasional (i.e. during steam cleaning etc.)		
*No simultaneous chemical and mechanical ex	oosure.	

USGBC	Sikafloor [®] -262 ASN conforms to the requirements of LEED			
LEED Rating	EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings			
	SCAQMD Method 304-91 VO	SCAQMD Method 304-91 VOC Content < 100 g/l		
System Information				
System Structure	Self-smoothing system ca. 1.5 mm – semi-gloss finish: Primer: 1 x Sikafloor®-161 HC Earthing connection: Sikafloor® Earthing Kit Conductive coat: 1 x Sikafloor®-220 W Conductive Conductive wearing course: 1 x Sikafloor®-262 ASN, filled with Sikafloor®-Filler 1 Sikafloor®-Filler 1			
	Note: alternatively quartz sand F34* can be used as a filler, which will result in a gloss finish with a slight change of the aesthetical appearance.			
	Note: The system configurations as described must be fully complied with and may not be changed. Due to the nature of carbon fibres providing the conductivity, surface irregularities might be possible. This has no influence on the function and performance of the coating.			

Application Details

Prin	ating System ner	Product	Consumption		
Prin	0 7		Consumption		
	ner		<u> </u>		
Lev		Sikafloor [®] -161 HC	0.3 - 0.5 kg/m²		
	elling (optional)	Sikafloor [®] -161 HC mortar	Refer to PDS of Sikafloor [®] -161 HC		
Cor	nductive coat	Sikafloor [®] -220 W Conductive	0.08 - 0.10 kg/m²		
		٩	Maximum 2.5 kg/m² Binder + Sikafloor [®] -Filler 1		
	aring course smooth m thickness ~ 1.5 mm)	Sikafloor [®] -262 ASN filled with Sikafloor [®] - Filler 1	Depending on the temperature the filling grade varies from:		
			1 : 0.1 pbw (2.3 + 0.2 kg/m²) to 1 : 0.2 pbw (2,1 + 0.4 kg/m²)		
	Wearing course smooth (Film thickness ~ 1.5 mm)	٩	Maximum 2.5 kg/m² Binder + quartz sand F34*		
		Sikafloor [®] -262 ASN filled with quartz sand F34*	Depending on the temperature the filling grade varies from:		
			1 : 0.1 pbw (2.3 + 0.2 kg/m²) to 1 : 0.3 pbw (1.9 + 0.6 kg/m²		
	aring course textured m thickness ~ 0.5 mm)	Sikafloor [®] -262 ASN + Extender T + Thinner C	0.75 kg/m² 1.25 % (by weight) 2% (by weight)		
	These figures are theoretical and does not allow for any additional material requi due to surface porosity, surface profile, variations in level and wastage etc.				
Gm	*All values have been determined using quartz sand 0.1-0.3 mm from Quarzwerke GmbH Frechen sand. Other quartz sand type will have an effect on the product, such as filling grade, levelling properties and aesthetics.				
Gei	nerally, the lower the	temperature the less th	ne filling grade.		
	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 clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.				
If in	If in doubt apply a test area first.				

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.		
Repairs to the 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 in order to achieve an even surface. Unevenness influences the film thickness and thus the conductivity.		
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.		
+10°C min. / +30°C max.		
+10°C min. / +30°C max.		
4% pbw moisture content.		
Test method: Sika $^{\ensuremath{\mathbb{R}}}$ Tramex meter, CM - measurement or Oven-dry-method.		
No rising moisture according to ASTM (Polyethylene-sheet).		
80% r.h. max.		
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.		
Part A : part B = 84 : 16 (by weight)		
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 minimize air entrainment.		
Sikafloor [®] -262 ASN must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.		

Application Method /	Prior to application, confirm substrate moisture content, r.h. and dew point.					
Tools	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 because varying thickness of the Sikafloor [®] -262 ASN wearing course will influence the conductivity and aesthetical appearance. Therefore use Sikafloor®-156 / -161 levelling mortar (see PDS). <i>Placing of earthing points:</i> See below "Notes on Application / Limits".					
	Application of Sikafloor [®] conductive coat: See PDS of Sikafloor [®] -220 W conductive. <i>Wearing course smooth:</i> Sikafloor [®] -262 ASN is poured, spread evenly by means of a serrated trowel. After spreading the material evenly, turn the serrated trowel and smooth the surfa in order to achieve an aesthetically higher grade of finish.					
	Roll immediately in two direction		-			
	Wearing course textured: Sikafloor [®] -262 ASN (unfilled) i (crosswise) with a textured rol	is applied wit ler.	h a serrated tr	owel and then back-rolled		
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		
	+10°C		~ 40 minutes			
	+20°C	+20°C ~ 25 minutes		~ 25 minutes		
	+30°C			~ 15 minutes		
Waiting Time /	+30°C Before applying Sikafloor [®] -262	2 ASN on Sik	afloor [®] -220 W			
Waiting Time / Overcoatability		2 ASN on Sił Minin				
	Before applying Sikafloor [®] -262		num	/ Conductive allow:		
	Before applying Sikafloor [®] -262 Substrate temperature	Minin	num purs	/ Conductive allow: Maximum		
	Before applying Sikafloor [®] -262 Substrate temperature +10°C	Minin 26 ho	num purs purs	/ Conductive allow: Maximum 7 days		
	Before applying Sikafloor [®] -262 Substrate temperature +10°C +20°C	Minin 26 ho 17 ho 12 ho ill be affected	num ours ours ours d by changing	/ Conductive allow: Maximum 7 days 5 days 4 days		
	Before applying Sikafloor [®] -262 Substrate temperature +10°C +20°C +30°C Times are approximate and wi	Minin 26 ho 17 ho 12 ho ill be affected elative humic	num burs burs burs d by changing lity.	/ Conductive allow: Maximum 7 days 5 days 4 days ambient conditions		
Overcoatability	Before applying Sikafloor [®] -262 Substrate temperature +10°C +20°C +30°C Times are approximate and win particularly temperature and re	Minin 26 ho 17 ho 12 ho ill be affected elative humic d by experier	num burs burs burs d by changing lity. nced professio	/ Conductive allow: Maximum 7 days 5 days 4 days ambient conditions nals.		
Overcoatability Notes on Application /	Before applying Sikafloor [®] -262 Substrate temperature +10°C +20°C +30°C Times are approximate and wi particularly temperature and re This product may only be used Do not apply Sikafloor [®] -262 A	Minin 26 ho 17 ho 12 ho ill be affected elative humic d by experier	num burs burs burs d by changing lity. nced professio	/ Conductive allow: Maximum 7 days 5 days 4 days ambient conditions nals.		
Overcoatability Notes on Application /	Before applying Sikafloor [®] -262 Substrate temperature +10°C +20°C +30°C Times are approximate and wi particularly temperature and re This product may only be used Do not apply Sikafloor [®] -262 At may occur.	Minin 26 ho 17 ho 12 ho ill be affected elative humic d by experier SN on subst	num burs burs d by changing lity. Inced professio rates in which	/ Conductive allow: Maximum 7 days 5 days 4 days ambient conditions nals. significant vapour pressur		
Overcoatability Notes on Application /	Before applying Sikafloor [®] -262 Substrate temperature +10°C +20°C +30°C Times are approximate and wi particularly temperature and re This product may only be used Do not apply Sikafloor [®] -262 A may occur. Do not blind the primer. Freshly applied Sikafloor [®] -262	Minin 26 hd 17 hd 12 hd ill be affected elative humic d by experier SN on subst 2 ASN must t 5.	num burs burs d by changing lity. Inced professio rates in which	/ Conductive allow: Maximum 7 days 5 days 4 days ambient conditions nals. significant vapour pressur		
Overcoatability Notes on Application /	Before applying Sikafloor [®] -262 Substrate temperature +10°C +20°C +30°C Times are approximate and wire particularly temperature and restricularly temperature and restricularly temperature and restricularly temperature and restricularly Sikafloor [®] -262 Armay occur. Do not apply Sikafloor [®] -262 Armay occur. Do not blind the primer. Freshly applied Sikafloor [®] -262 and water for at least 24 hours	Minin 26 ho 17 ho 12 ho 12 ho 12 ho 13 ho 14 ho 12 ho 15 ho 15 ho 15 ho 15 ho 16 ho 17 ho 12 ho	num burs burs d by changing lity. Inced professio rates in which be protected fr ier.	/ Conductive allow: Maximum 7 days 5 days 4 days ambient conditions nals. significant vapour pressur om damp, condensation the priming coat has dried		

Layer thickness of wearing course: ~ 1.5 mm. Excessive thickness (more than 2.5 kg/m²) causes reduced conductivity.

Before the application of a conductive flooring system, a reference area has to be applied. This reference area must be assessed and accepted from the contractor/client. The desired result and method of conductivity measurement must be stated in the Specification and Method Statement. The number of conductivity measurements is strongly recommended to be as shown in the table below:

Applied floor area	Number of measurements
< 10 m²	1 measurement / m ²
10-100 m²	10 - 20 measurements
> 100 m²	10 measurements / 100m ²

In case of values lower/higher as required, an additional measurement has to be carried out, approx. 30 cm around the point with insufficient readings. If the newly measured values are in accordance with the requirements, the total area is acceptable.

Please note, that measuring results of the thixotropic version of Sikafloor[®]-262 ASN may vary due to a difference in surface profile.

Placing of earthing points:

Please make sure to only use the original Sikafloor[®] Earthing Kit in order to connect the earthing points. Every earthing point is able to conduct approx. 300 m², The earthing points have to be connected to the ring-mains, which has to be carried out and approved by an electrical engineer and in accordance with any relevant regulations or standards.

Numbers of earth points:

Per room al least 2 earthing points. The optimum number of earth connections depends on the local conditions and should be specified with documents.

Under certain conditions, underfloor heating combined with high point loading, may lead to imprints in the resin.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and H_2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking - reducing or breaking conductivity.

For exact colour matching, ensure the Sikafloor[®]-262 ASN in each area is applied from the same control batch numbers.

Curing Details

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 30 hours	~ 5 days	~ 10 days
+20°C	~ 24 hours	~ 3 days	~ 7 days
+30°C	~ 16 hours	~ 2 days	~ 5 days
Note: Times are appr	roximate and will be a	affected by changing a	mbient conditions.
To maintain the appearance of the floor after application, Sikafloor [®] -262 ASN 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.			
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.			
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.			
-	+10°C +20°C +30°C Note: Times are app To maintain the appe have all spillages ren brush, mechanical so vacuum techniques e All technical data sta Actual measured dat	+10°C ~ 30 hours +20°C ~ 24 hours +30°C ~ 16 hours Note: Times are approximate and will be a To maintain the appearance of the floor af have all spillages removed immediately ar brush, mechanical scrubbers, scrubber dr vacuum techniques etc. using suitable det All technical data stated in this Product Da Actual measured data may vary due to cir For information and advice on the safe ha	+10°C ~ 30 hours ~ 5 days +20°C ~ 24 hours ~ 3 days +30°C ~ 16 hours ~ 2 days Note: Times are approximate and will be affected by changing a To maintain the appearance of the floor after application, Sikafld have all spillages removed immediately and must be regularly c brush, mechanical scrubbers, scrubber dryer, high pressure was vacuum techniques etc. using suitable detergents and waxes. All technical data stated in this Product Data Sheet are based o Actual measured data may vary due to circumstances beyond o For information and advice on the safe handling, storage and dia

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.			
CE Labelling	The harmonized European Standard EN 13 813 "Screed material and floor screed materials - Properties and requirements" specifies requirements for screet materials for use in floor construction internally.			
	Structural screeds or coatings, i.e. those that contrib of the structure, are excluded from this standard.	oute to the load	d bearing capacity	
	Resin floor systems as well as cementitious screeds They have to be CE-labelled as per Annex ZA. 3, Ta requirements of the given mandate of the Construct	able ZA.1.5 an	d 3.3 and fulfil the	
	CE			
	Sika Deutschland GmbH Kornwestheimerstraße 103-107 D - 70439 Stuttgart			
	08 ¹⁾			
	EN 13813 SR-B1,5-AR1-IR 4			
	Resin screed/coating for indoors in buildings (systems as per Product Data Sheet)			
	Reaction to fire:	E _{fl} ²⁾		
	Release of corrosive substances (S ynthetic R esin Screed):	SR		
	Water permeability:	NPD 3)		
	Abrasion Resistance:	AR1 ⁴⁾		
	Bond strength:	B 1,5		
	Impact Resistance:	IR 4		
	Sound insulation:	NPD		
	Sound absorption:	NPD		
	Thermal resistance:	NPD		
	Chemical resistance:	NPD		
	¹⁾ Last two digits of the year in which the marking wa	as affixed.		

²⁾ Min. classification, please refer to the individual test certificate.

³⁾ No performance determined.

⁴⁾ Not broadcast with sand.

CE Labelling

The harmonized European Standard EN 1504-2 "Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity – Part 2 : Surface protection systems for concrete" gives specifications for products and systems used as methods for the various principles presented under EN 1504-9.

Products which fall under this specification have to be CE-labelled as per Annex ZA. 1, Tables ZA.1a to ZA 1g according to the scope and relevant clauses there indicated, and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

Here below indicated are the minimum performance requirements set by the standard. For the specific performance results of the product to the particular tests, please see the actual values above in the PDS.

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	0921	
	Sika Deutschland GmbH Kornwestheimerstraße 103-107 D - 70439 Stuttgart 08 ¹⁾ 0921–CPD–2017	
	EN 1504-2	
	Surface Protection Product	
	Coating ²	
	Abrasion resistance (Taber test):	< 3000 mg
	Permeability to CO ₂ :	S _D > 50 m
	Permeability to water vapour:	Class III ($S_D > 50 \text{ m}$)
	Capillary absorption and permeability to water:	<i>w</i> < 0.1 kg/m ² x h ^{0.5}
	Resistance to severe chemical attack: ³⁾	Class I
	Impact resistance:	Class I
	Adhesion strength by pull-off test:	≥ 2.0 N/mm²
	Fire Classification: ⁴⁾	E _{fl}
	 ¹⁾ Last two digits of the year in which the marking was affixed. ²⁾ Tested as a part of a system build-up with Sikafloor[®]-156, Sikafloor[®]-161 and Sikafloor[®]-220 W Conductive. 	
	³⁾ Please refer to the Sikafloor [®] Chemical Resistance Chart.	
	⁴⁾ Min. classification, please refer to the individual test certificate.	
2004/42	According to the EU-Directive 2004/42, the maximum allowed content of VOC	

EU Regulation 2004/42 VOC - Decopaint Directive

product. The maximum content of **Sikafloor[®]-262 ASN** is < 500 g/l VOC for the ready to use product.

(Product category IIA / j type sb) is 500 g/l (Limits 2010) for the ready to use



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