Sikafloor[®]-262 AS N

2-part epoxy electrostatic conductive self-smoothing system

Draduat	Sikafloor [®] -262 AS N is a two part, self-smoothing, colored epoxy resin coating.
Product	
Description	"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, electronics 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 / Advantages	 Electrostatic conductive 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 Compatibility in acc. to BMW-Standard 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



Sikafloor®-262 AS N

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Product Data Form **Appearance / Colors** colored, liquid Resin - part A: Hardener - part B: transparent, liquid Almost unlimited choice of color shades. Due to the nature of carbon fibers providing the conductivity, it is not possible to achieve exact color matching. With very bright colors (such as yellow and orange), this effect is increased. Under direct sun light there may be some discoloration and color variation, this has no influence on the function and performance of the coating. Packaging Part A: 21 kg containers Part B: 4 kg containers 25 kg ready to mix units Part A+B: Storage

Technical Data

Chemical Base	Ероху		
Density	Part A: ~ 1.69 kg/l Part B: ~ 1.03 kg/l Mixed resin: ~ 1.53 kg/l Filled resin 1 : 0.3 : ~ 1.69 kg/l		(DIN EN ISO 2811-1)
	All Density values at +23°C		
Solid Content	~ 97% (by volume) / ~97% (by weight)		
Electrostatic Behavior	Resistance to ground ¹⁾ : Typical average resistance to ground ²⁾ :	$R_g < 10^9 Ω$ $R_g ≤ 10^6 Ω$	(IEC 61340-4-1) (DIN EN 1081)
	¹⁾ This product fulfills the requirements of ATEX 137 ²⁾ Readings may vary, depending on ambient conditi equipment.	ions (i.e. temperature, l	numidity) and measurement

Mechanical / Physical Properties

Toperties		
Compressive Strength	Resin: ~ 80 N/mm ² (filled 1:0.3 with F34*) (28 d	days / +23°C) (EN 196-1)
Flexural Strength	Resin: ~ 40 N/mm ² (filled 1:0.3 with F34*) (28 d	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))
	*Values have been determined using quartz sa Quarzwerke GmbH Frechen sand.	nd F 34 (0.1-0.3 mm) from

Resistance				
Chemical Resistance	Resistant to many chemicals. F	Please ask f	or a detailed chemical resistance table.	
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 me	echanical exp	oosure.	
USGBC	Sikafloor [®] -262 AS N conforms	to the requi	rements of LEED	
LEED Rating	EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings			
	SCAQMD Method 304-91 VOC Content < 100 g/l			
System Information				
System Structure	Self-smoothing system ca. 1.5 Primer: Earthing connection: Conductive primer: Conductive wearing course:	1 x Sikaflo Sikafloor®	or [®] -161 Earthing Kit or [®] -220 W Conductive or [®] -262 AS N, filled with	
	Note: alternatively quartz sand gloss finish with a slight change		used as a filler, which will result in a thetical appearance.	
	not be changed. Due to the nat	ture of carbo	bed must be fully complied with and may on fibers providing the conductivity, is has no influence on the function and	

Application Details

Consumption / Dosage			
	Coating System	Product	Consumption
	Primer	Sikafloor [®] -161	3 - 6m²/ltr
	Leveling (optional)	Sikafloor [®] -161 mortar	Refer to PDS of Sikafloor [®] -161
	Conductive primer	Sikafloor [®] -220 W Conductive	0.08 - 0.10 kg/m²
	Self-smoothing wearing course for high aesthetical demands (Film thickness ~ 1.5 mm)	Sikafloor [®] -262 AS N filled with Sikafloor [®] - Filler 1*	Maximum 2.5 kg/m ² Binder + 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)
	Self-smoothing wearing course (Film thickness ~ 1.5 mm)	Sikafloor [®] -262 AS N filled with quartz sand F34*	Maximum 2.5 kg/m² Binder + quartz sand F34*
			Depending on the temperature the filling grade varies from:
			1 : 0.1 pbw (2.3 + 0.2 kg/m ²) to 1 : 0.3 pbw (1.9 + 0.6 kg/m ²
	Wearing course textured (Film thickness ~ 0.5 mm)	Sikafloor [®] -262 AS N + Extender T + Thinner C	0.75 kg/m ² 1.25 % (by weight) 2% (by weight)

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	These figures are theoretical and does not allow for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.
	*All values have been determined using quartz sand 0.1-0.3 mm from Quarzwerke GmbH Frechen sand and Sikafloor [®] -Filler 1. Other quartz sand type will have an effect on the product, such as filling grade, leveling properties and aesthetics.
	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 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.
Substrate Preparation	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 blowholes and voids must be fully exposed.
	Repairs to the substrate, filling of blowholes/voids and surface leveling 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 leveled 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.
Application Conditions / Limitations	
Substrate Temperature	+10°C min. / +30°C max.
Ambient Temperature	+10°C min. / +30°C max.
Substrate Humidity	< 4% pbw moisture content.
	Test method: Sika $^{\ensuremath{ extsf{8}}}$ -Tramex meter, CM - measurement or Oven-dry-method.
	No rising moisture according to ASTM (Polyethylene-sheet).
Relative Air Humidity	80% r.h. max.
Dew Point	Beware of condensation!
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Application Instructions Mixing	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 Sikafloor [®] -Filler 1 or 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

Application Method /	Prior to application, confirm	substrate mois	sture 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.			
	Leveling: Rough surfaces need to be leveled first because varying thickness of the Sikafloor [®] -262 AS N wearing course will influence the conductivity and aesthetical appearance. Therefore use Sikafloor®-161 leveling mortar (see PDS).			
	Placing of earthing points: See below "Notes on Applica	ation / Limits".		
	<i>Application of Sikafloor[®] con</i> See PDS of Sikafloor [®] -220 V	<i>ductive primer</i> V conductive.	?	
	<i>Wearing course smooth:</i> Sikafloor [®] -262 AS N 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 in two directions with spiked roller to ensure even thickness.			
	<i>Wearing course textured:</i> Sikafloor [®] -262 AS N (unfilled (crosswise) with a textured re	d) is applied wi oller.	th a serrated	trowel and then back-rolled
Cleaning of Tools	Clean all tools and application equipment with Colma Cleaner immediately after use. Hardened and/or cured material can only be removed mechanically.			
Pot life				
	Temperatures			Time
	+10°C			~ 40 minutes
	+20°C			~ 25 minutes
	+30°C			~ 15 minutes
Waiting Time /	Before applying Sikafloor [®] -2	62 AS N on Si	kafloor [®] -220 \	V Conductive allow:
Overcoatability	Substrate temperature	Minin	num	Maximum
	+10°C	26 ho	ours	7 days
	+20°C	17 ho	ours	5 days
	+30°C	12 ho	ours	4 days
	Times are approximate and v particularly temperature and			ambient conditions

Notes on Application / Limitations

This product may only be used by experienced professionals.

Do not apply Sikafloor[®]-262 AS N on substrates in which significant vapor pressure may occur.

Do not blind the primer.

Freshly applied Sikafloor[®]-262 AS N must be protected from damp, condensation and water for at least 24 hours.

Only start application of Sikafloor[®] conductive primer after the priming coat has dried tack-free all over. Otherwise there is a risk of wrinkling or impairing of the conductive properties.

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:

Ready applied area	Number of measurements
< 10 m²	6 measurements
< 100 m²	10-20 measurements
< 1000 m²	50 measurements
< 5000 m²	100 measurements

In case of values lower/higher as required, additional measurements 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 AS N 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 at 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 vapor, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

The incorrect eccessment and treatment of creaks may lead to a reduced convice

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

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

Curing Details

Applied Product re	ady
for use	

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 approximate and will be affected by changing ambient conditions.

Cleaning /

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Maintenance	
Methods	To maintain the appearance of the floor after application, Sikafloor [®] -262 AS N 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 VOC - Decopaint	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.
Directive	The maximum content of Sikafloor[®]-262 AS N is < 500 g/l VOC for the ready to use product.



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