Sikafloor®-262 AS

2-part epoxy Electrostatically conductive self-smoothing system

Product Description	Sikafloor®-262 AS is a two part, self-smoothing, coloured epoxy resin coating.		
Uses	 Decorative and protective electrostatically conductive self-smoothing system for concrete or cement screeds with normal to medium heavy wear. Suitable as a wearing course in industries, such as automotive, electronic and pharmaceutical manufacturing, storage facilities and warehouses Particular suitable for areas with sensitive electronic equipment e.g. CNC machinery, computer rooms, aircraft maintenance sheds, battery-charging rooms and areas subject to high explosion risks etc. 		
Characteristics / Advantages	 Electrostatically conductive Good chemical and mechanical resistance Easy to clean Economical Liquid proof Solvent-free Gloss finish Slip resistant surface possible 		
Test			
Approval / Standards	Conforms to the requirements of DIN IEC 61340-4-1 (Polymer Institute, P 2061-3) Sikafloor®-262 AS has been tested as per SCAQMD Method 304-91 Result: VOC Content < 100g/I		
Product Data			
Form			
Appearance / Colours	Resin - part A: coloured, liquid Hardener - part B: transparent, liquid		
	Almost unlimited choice of colour shades.		
	Due to the nature of carbon fibers providing the conductivity, it is not possible to achieve exact colour matching. With very bright colours (such as yellow and orange), this effect is increased. Under direct sun light there may be some discolouration and colour variation, this has no influence on the function and performance of the coating.		
Packaging	Part A: 21 kg containers Part B: 4 kg containers Part A+B: 25 kg ready to mix units		
	Bulk packaging: Part A: 180 kg drums Part B: 180 kg drums		
Storage			
Storage Conditions / Shelf-Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.		

Technical Data				
Chemical Base	Ероху			
Density	Part A: ~ 1.70 kg. Part B: ~ 1.03 kg. Mixed resin: ~ 1.5 kg/l Filled resin 1: 0.4: ~ 1.7 kg/l	/I	(DIN EN ISO 2811-1)	
	All Density values at +23°C	All Density values at +23°C		
Solid Content	~ 100% (by volume) / ~ 100%			
Electrostatic Behaviour	Resistance to earth R _E < 7	10 ⁶ Ohm	(IEC 61340-4-1; EN 1081)	
Mechanical / Physical Properties				
Compressive Strength	Resin: ~ 80 N/mm ² (28 days	s / +23°C)	(EN 196-1)	
Flexural Strength	Resin: ~ 40 N/mm ² (28 days / +23°C) (EN 196-			
Bond Strength	> 1.5 N/mm² (failure in concrete) (ISO 462			
Shore D Hardness	81 (3 days / +23°C) (DIN 53 505			
Abrasion Resistance	65 mg (CS 10/1000/1000) (8	days / +23°C)	(DIN 53 109 (Taber Abrader Test))	
Resistance				
Chemical Resistance	Resistant to many chemicals.	Please ask for a	detailed chemical resistance table.	
Thermal Resistance				
	Exposure*		Dry heat	
	Permanent		+50°C	
	Short-term max. 7 d		+80°C	
	Short-term max. 12 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 exposure.		е.	
System Information				
System Structure	Primer: 1 x Sikafloor®-156 Earthing connection: Sikafloor® Earthing Kit Conductive coat: 1 x Sikafloor®-220 W Conductive Conductive wearing course: 1 x Sikafloor®-262 AS, filled with quartz sand 0.1 - 0.3 mm		ning Kit 20 W Conductive	
	Note: This system configuration not be changed.	on must be fully c	omplied with as described and may	

Application Details				
Consumption / Dosage				
	Coating System	Product	Consumption	
	Primer	Sikafloor [®] -156	0.3 - 0.5 kg/m²	
	Levelling (optional)	Sikafloor [®] -156 mortar	Refer to PDS of Sikafloor®-156	
	Conductive coat	Sikafloor [®] -220 W Conductive	0.08 - 0.10 kg/m²	
	Wearing course smooth (Film thickness ~ 1.5 mm)	Sikafloor [®] -262 AS filled with quartz sand 0.1 - 0.3	Maximum 2.5 kg/m ² Binder + quartz sand 10 - 15°C: 1: 0.2 pbw (2.0 + 0.5 kg/m ²) 15 - 20°C: 1: 0.3 pbw (1.9 + 0.6 kg/m ²)	
	Wearing course textured	Sikafloor®-262 AS +	20 - 30°C: 1 : 0.4 pbw (1.8 + 0.7 kg/m²) 0.75 kg/m²	
	(Film thickness ~ 0.5 mm)	Extender T + Thinner C	1.25 % (by weight) 2% (by weight)	
	due to surface porosity,	surface profile, variation	ow for any additional material required ons in level and wastage etc.	
Substrate Quality	The concrete substrate (minimum 25 N/mm²) w		sufficient compressive strength strength of 1.5 N/mm².	
	The substrate must be or grease, coatings and su		Il contaminants such as dirt, oil,	
	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 levelling must 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. 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	х.		
Ambient Temperature	+10°C min. / +30°C max	х.		
Substrate Moisture	≤ 4% pbw moisture con	tent.		
Content	Test method: Sika®-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			
	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.			
Application Instructions				
Mixing	Part A : part B = 84 : 16			
Mixing Time	Prior to mixing, stir part A, mix continuously for	A mechanically. When 2 minutes until a unifor	all of part B has been added to part m mix has been achieved.	
	When parts A and B had for a further 2 minutes u		e quartz sand 0.1 - 0.3 mm and mix been achieved.	
	To ensure thorough mix achieve a consistent mix		another container and mix again to	
	Over mixing must be av	oided to minimise air e	entrainment.	

Mixing Tools		Sikafloor [®] -262 AS must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.			
Application Method /	Prior to application, confirm	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.				
	Levelling: Rough surfaces need to be levelled first because varying thickness of the Sikafloor®-262 AS wearing course will influence the conductivity. Therefore use Sikafloor®-156 levelling mortar (see PDS).				
	Placing of earthing plates: See below "Notes on Application / Limits".				
	Application of Sikafloor® conductive coat: See PDS of Sikafloor®-220 W conductive.				
	Wearing course smooth: Sikafloor®-262 AS is poured, spread evenly by means of a serrated trowel. Roll immediately in two directions with spiked roller to ensure even thickness. Wearing course textured: Sikafloor®-262 AS is applied with a serrated trowel and then back-rolled (crosswise) with a textured roller.				
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		~ 60 minutes		
	+20°C		~ 30 minutes		
	+30°C		~ 15 minutes		
Waiting Time /	Before applying Sikafloor®-262 AS on Sikafloor®-220 W Conductive allow:				
Overcoating	Substrate temperature	Minimum	Maximum		

Substrate temperature	Minimum	Maximum
+10°C	26 hours	7 days
+20°C	17 hours	5 days
+30°C	12 hours	4 days

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®-262 AS on substrates with rising moisture.

Do not blind the primer.

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

Avoid puddles on the surface with the primer.

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

Tools

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

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 / m²
10-100 m²	10 - 20 measurements
> 100 m²	10 measurements / 100m²

The measuring points must have a distance of at least 50 cm to the next measuring point. In case of a measurement lower/higher than required, an additional measurement has to be carried out within 50 cm of the point with the insufficient result.

If several measuring points (R_E) of the final floor are > 1 • 10 6 Ω (in case of electrostatically conductive floorings (ECF)), but the walking test (< 100 V, IEC 61340-4-5, IEC 61340-5-1, ESD STM 07.2-1999) and/or the system test (< 35 M Ω , IEC 61340-5-1) results are within the requirements, the total area is acceptable.

Placing of earthing plates:

If the Sikafloor® Earthing Kit conductor system (system of anchored brass-plates with stable earth connection) is applied, the instructions for use have to be followed exactly. Every earthing point is able to conduct 100 m². Ensure the longest distance of each point in the area is max. 10 m to the next earthing point. Clean the earthing spots carefully. For longer distances, additional earthing plates have to be placed. If site conditions do not allow placing of additional earthing points, longer distances (>10 m) have to be bridged with copper tapes. The earthing spots have to be connected to the ring-mains. This work must be executed and approved by an electrical engineer and in accordance with any relevant regulations

Numbers of earth connections:

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

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 AS in each area is applied from the same control batch numbers.

Under certain conditions, underfloor heating or high ambient temperatures 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.

Construction

Curing Details Applied Product ready for use Temperature Foot traffic Light traffic Full cure ~ 30 hours +10°C ~ 10 days ~ 5 davs +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	1	Maintenance
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Methods

To maintain the appearance of the floor after application, Sikafloor[®]-262 AS 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 should 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.



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