

# PRODUCT DATA SHEET

## Sikafloor®-262 AS N

2-PART, SMOOTH ELECTROSTATIC CONDUCTIVE EPOXY FLOOR COVERING



### DESCRIPTION

Sikafloor®-262 AS N 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)". Sikafloor®-262 AS N is the main wearing course of the Sikafloor® Multidur ES-24 ECF System.

### USES

Sikafloor®-262 AS N may only be used by experienced professionals.

Sikafloor®-262 AS N is used as:

- 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 risk

### CHARACTERISTICS / ADVANTAGES

- Electrostatic conductive
- Good chemical and mechanical resistance
- Easy to clean
- Economical
- Liquid proof
- Semi-gloss finish
- Slip resistant surface possible

### ENVIRONMENTAL INFORMATION

#### LEED Rating

Sikafloor®-262 AS N 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

- Self-smoothing, coloured epoxy resin coating according to EN 1504-2: 2004 and EN 13813, DoP 02080102014000007 1008, certified by Factory Production Control Body No. 0921, certificate 2017, and provided with the CE-mark
- 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
- Particle emission certificate Sikafloor®-262 AS N CSM Statement of Qualification - ISO 14644-1, class 4 - Report No. SI 1412-740, March 2015
- Outgassing emission certificate Sikafloor®-262 AS NF CR: CSM Statement of Qualification - ISO 14644-8, class -8.0 - Report No. SI 1412-740, March 2015
- Spark resistance in accordance with UFGS-09 97 23 of coating systems, Test report P 8625-E, Kiwa Polymer Institut



## PRODUCT INFORMATION

<b>Chemical base</b>	Epoxy	
<b>Packaging</b>	Part A	21 kg containers
	Part B	4 kg containers
	Part A + B	25 kg ready to mix units
<b>Appearance / Colour</b>	Resin - part A	coloured, liquid
	Hardener - part B	transparent, liquid
	<p>Almost unlimited choice of colour shades.            Due to the nature of carbon fibres 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 discoloration and colour variation, this has no influence on the function and performance of the coating.</p>	
<b>Shelf life</b>	12 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	~ 1.69 kg/l (DIN EN ISO 2811-1)
	Part B	~ 1.03 kg/l
	Mixed resin	~ 1.53 kg/l
	Filled resin 1 : 0.3	~ 1.69 kg/l
	All Density values at +23°C	
<b>Solid content by weight</b>	~97%	
<b>Solid content by volume</b>	~97%	

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~77 (3 days / +23°C)	(DIN 53 505)
<b>Abrasion Resistance</b>	Resin (filled with quartz sand 0.1-0.3mm): 100 mg* (CS 10/1000/1000) (7 days / +23°C)	(DIN 53 109 (Taber Abraser Test))
<b>Compressive Strength</b>	Resin: ~ 80 N/mm <sup>2</sup> (filled 1:0.3 with quartz sand 0.1-0.3mm) (28 days / +23°C)	(EN 196-1)
<b>Tensile Strength in Flexure</b>	Resin: ~ 40 N/mm <sup>2</sup> (filled 1:0.3 with quartz sand 0.1-0.3mm*) (28 days / +23°C)	(EN 196-1)
<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. Please contact Sika technical service.	
<b>Thermal Resistance</b>	<b>Exposure*</b>	<b>Dry heat</b>
	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 exposure.	
<b>Electrostatic Behaviour</b>	Resistance to ground <sup>1)</sup>	$R_g < 10^9 \Omega$ (IEC 61340-4-1)
	Typical average resistance to ground <sup>2)</sup>	$R_g \leq 10^6 \Omega$ (DIN EN 1081)

<sup>1)</sup> This product fulfils the requirements of ATEX 137

<sup>2)</sup> Readings may vary, depending on ambient conditions (i.e. temperature, humidity) and measurement equipment.

## SYSTEM INFORMATION

### Systems

Please refer to the System Data Sheet of:

**Sikafloor® Multidur ES-24 ECF**

Smooth, unicolour conductive epoxy floor covering

## APPLICATION INFORMATION

### Mixing ratio

Part A : part B = 84 : 16 (by weight)

### Consumption

Coating System	Product	Consumption
Self-smoothing wearing course for high aesthetic demands (Film thickness ~ 1.5 mm)	Sikafloor®-262 AS N filled with Sikafloor® Filler 1	Maximum 2.5 kg/m <sup>2</sup> Binder + Sikafloor® Filler 1 Depending on the temperature the filling grade varies from: 1 : 0.1 pbw (2.3 + 0.2 kg/m <sup>2</sup> ) to 1 : 0.2 pbw (2.1 + 0.4 kg/m <sup>2</sup> )
Self-smoothing wearing course (Film thickness ~ 1.5 mm)	Sikafloor®-262 AS N filled with quartz sand 0.1-0.3mm	Maximum 2.5 kg/m <sup>2</sup> Binder + quartz sand 0.1-0.3mm. Depending on the temperature the filling grade varies from: 1 : 0.1 pbw (2.3 + 0.2 kg/m <sup>2</sup> ) to 1 : 0.3 pbw (1.9 + 0.6 kg/m <sup>2</sup> )

These figures are theoretical and do not allow for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.

For detailed information, please refer to the related System Data Sheet.

### Ambient Air Temperature

+10°C min. / +30°C max.

### 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.

### Substrate Temperature

+10°C min. / +30°C max.

### Substrate Moisture Content

< 4% pbw moisture content.

Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).

### Pot Life

Temperatures	Time
+10°C	~ 40 minutes
+20°C	~ 25 minutes
+30°C	~ 15 minutes

### Applied Product Ready 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.

# 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.

If in doubt apply a test area first.

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 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.

## 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 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 achieve a consistent mix. Over mixing must be avoided to minimize air entrainment. Sikafloor®-262 AS N must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

## APPLICATION

Sikafloor®-262 AS N is poured, spread evenly by means of a serrated trowel e.g. Large-Surface Scraper No. 656, Toothed blades No. 25 ([www.polyplan.com](http://www.polyplan.com)).

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

Removal of fresh remnants from tools and application equipment can be carried out using Thinner C immediately after use. Hardened / cured material can only be

mechanically removed.

## MAINTENANCE

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. For further details please refer to the Method Statement "Cleaning & Maintenance of Sikafloor® Systems".

## 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

- Prior to application, confirm substrate moisture content, relative humidity and dew point. If > 4% pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.
- All values have been determined using quartz sand 0.1-0.3 mm and Sikafloor® Filler 1. Other quartz sand type will have an effect on the product, such as filling grade, levelling properties and aesthetics. Generally, the lower the temperature the less the filling grade.
- Do not apply Sikafloor®-262 AS N on substrates in which significant vapour 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 the application of Sikafloor®-262 AS N after the conductive 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/m<sup>2</sup>) causes reduced conductivity.
- Before the application of a conductive flooring system, it is recommended to apply a reference area. This reference area must be assessed and accepted from the contractor/client.
- Please note that measuring results of the thixotropic version of Sikafloor®-262 AS N may vary due to a difference in surface profile.
- 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<sub>2</sub> and H<sub>2</sub>O 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 AS N 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. 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.

## 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®-262 AS N 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 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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