

(Template for local translation, only for internal use)

# Sikafloor®-262 AS N

## 2-part epoxy electrostatic conductive self-smoothing system

<b>Product Description</b>	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)"
<b>Uses</b>	<ul style="list-style-type: none"><li>■ Decorative and protective electrostatic conductive self-smoothing system for concrete or cement screeds with normal up to medium heavy wear.</li><li>■ Suitable as a wearing course in industries, such as automotive, electronic and pharmaceutical manufacturing, storage facilities and warehouses.</li><li>■ 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.</li></ul>
<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"><li>■ Electrostatic conductive</li><li>■ Good chemical and mechanical resistance</li><li>■ Easy to clean</li><li>■ Economical</li><li>■ Liquid proof</li><li>■ Semi-gloss finish</li><li>■ Slip resistant surface possible</li></ul>
<b>Test</b>	
<b>Approval / Standards</b>	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
<b>Product Data</b>	
<b>Form</b>	
<b>Appearance / Colours</b>	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.



<b>Packaging</b>	Part A: 21 kg containers Part B: 4 kg containers Part A+B: 25 kg ready to mix units								
<b>Storage</b>									
<b>Storage Conditions / Shelf-Life</b>	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.								
<b>Technical Data</b>									
<b>Chemical Base</b>	Epoxy								
<b>Density</b>	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  All Density values at +23°C								
<b>Solid Content</b>	~ 97% (by volume) / ~97% (by weight)								
<b>Electrostatic Behaviour</b>	Resistance to ground: $R_g < 10^6 \Omega$ (IEC 61340-4-1) Typical average resistance to ground: $10^4 \leq R_g \leq 10^6 \Omega^*$ (IEC 61340-4-1)  * Readings might vary, depending on ambient conditions (i.e. temperature, humidity) and measurement equipment.								
<b>Mechanical / Physical Properties</b>									
<b>Compressive Strength</b>	Resin: ~ 80 N/mm <sup>2</sup> (28 days / +23°C) (EN 196-1)								
<b>Flexural Strength</b>	Resin: ~ 40 N/mm <sup>2</sup> (28 days / +23°C) (EN 196-1)								
<b>Bond Strength</b>	> 1.5 N/mm <sup>2</sup> (failure in concrete) (ISO 4624)								
<b>Shore D Hardness</b>	77 (3 days / +23°C) (DIN 53 505)								
<b>Abrasion Resistance</b>	100 mg (CS 10/1000/1000) (7 days / +23°C) (DIN 53 109 (Taber Abraser Test))								
<b>Resistance</b>									
<b>Chemical Resistance</b>	Resistant to many chemicals. Please ask for a detailed chemical resistance table.								
<b>Thermal Resistance</b>	<table border="1"> <tr> <td>Exposure*</td> <td>Dry heat</td> </tr> <tr> <td>Permanent</td> <td>+50°C</td> </tr> <tr> <td>Short-term max. 7 d</td> <td>+80°C</td> </tr> <tr> <td>Short-term max. 2 h</td> <td>+100°C</td> </tr> </table> <p>Short-term moist/wet heat* up to +80°C where exposure is only occasional (i.e. during steam cleaning etc.)</p> <p>*No simultaneous chemical and mechanical exposure.</p>	Exposure*	Dry heat	Permanent	+50°C	Short-term max. 7 d	+80°C	Short-term max. 2 h	+100°C
Exposure*	Dry heat								
Permanent	+50°C								
Short-term max. 7 d	+80°C								
Short-term max. 2 h	+100°C								

## System Information

### System Structure

*Self-smoothing system ca. 1.5 mm – semi-gloss finish:*

Primer: 1 x Sikafloor®-156 / -161  
 Earthing connection: Sikafloor® Earthing Kit  
 Conductive coat: 1 x Sikafloor®-220 W Conductive  
 Conductive wearing course: 1 x Sikafloor®-262 AS N, filled with 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

### Consumption / Dosage

Coating System	Product	Consumption
Primer	Sikafloor®-156 / -161	0.3 - 0.5 kg/m <sup>2</sup>
Levelling (optional)	Sikafloor®-156 / -161 mortar	Refer to PDS of Sikafloor®-156 / -161
Conductive coat	Sikafloor®-220 W Conductive	0.08 - 0.10 kg/m <sup>2</sup>
Wearing course smooth (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> )
Wearing course smooth (Film thickness ~ 1.5 mm)	Sikafloor®-262 AS N filled with quartz sand F34*	Maximum 2.5 kg/m <sup>2</sup> Binder + quartz sand F34* 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> )
Wearing course textured (Film thickness ~ 0.5 mm)	Sikafloor®-262 AS N + Extender T + Thinner C	0.75 kg/m <sup>2</sup> 1.25 % (by weight) 2% (by weight)

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. 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.

### Substrate Quality

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.

<b>Substrate Preparation</b>	<p>Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.</p> <p>Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.</p> <p>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.</p> <p>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.</p> <p>High spots must be removed by e.g. grinding.</p> <p>All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.</p>
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### Application Conditions / Limitations

<b>Substrate Temperature</b>	+10°C min. / +30°C max.
<b>Ambient Temperature</b>	+10°C min. / +30°C max.
<b>Substrate Humidity</b>	<p>≤ 4% pbw moisture content.</p> <p>Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.</p> <p>No rising moisture according to ASTM (Polyethylene-sheet).</p>
<b>Relative Air Humidity</b>	80% r.h. max.
<b>Dew Point</b>	<p>Beware of condensation!</p> <p>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.</p>

### Application Instructions

<b>Mixing</b>	Part A : part B = 84 : 16 (by weight)
<b>Mixing Time</b>	<p>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.</p> <p>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.</p> <p>To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.</p> <p>Over mixing must be avoided to minimize air entrainment.</p>
<b>Mixing Tools</b>	Sikafloor®-262 AS N must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

**Application Method / Tools**

Prior to application, confirm substrate moisture content, r.h. and dew point.

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 N wearing course will influence the conductivity and aesthetical appearance. Therefore use Sikafloor®-156 / -161 levelling mortar (see PDS).

*Placing of earthing points:*

See below "Notes on Application / Limits".

*Application of Sikafloor® conductive coat:*

See PDS of Sikafloor®-220 W conductive.

*Wearing course smooth:*

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.

*Wearing course textured:*

Sikafloor®-262 AS N (unfilled) 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	~ 40 minutes
+20°C	~ 25 minutes
+30°C	~ 15 minutes

**Waiting Time / Overcoatability**

Before applying Sikafloor®-262 AS N on Sikafloor®-220 W Conductive allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	7 days
+20°C	15 hours	5 days
+30°C	10 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 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.

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](http://www.polyplan.com)

Serrated trowel for smooth wearing layer:

e.g. Large-Surface Scraper No. 656, 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/m<sup>2</sup>) 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 m <sup>2</sup>	1 measurement / m <sup>2</sup>
10-100 m <sup>2</sup>	10 - 20 measurements
> 100 m <sup>2</sup>	10 measurements / 100m <sup>2</sup>

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 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 m<sup>2</sup>. 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<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.

## Curing Details

### 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.

## Cleaning / 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.


**It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.**

**Note****The following chapter is only mandatory for European countries.****CE Labelling**

The harmonized European Standard EN 13813 „Screed material and floor screeds - Screed materials - Properties and requirements“ specifies requirements for screed materials for use in floor construction internally.

Structural screeds or coatings, i.e. those that contribute to the load bearing capacity of the structure, are excluded from this standard.

Resin floor systems as well as cementitious screeds fall under this specification. They have to be CE-labelled as per Annex ZA. 3, Table ZA.1.5 and 3.3 and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

	
Sika Deutschland GmbH Kornwestheimerstraße 103-107 D - 70439 Stuttgart	
08 <sup>1)</sup>	
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 <sub>fl</sub> <sup>2)</sup>
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD <sup>3)</sup>
Abrasion Resistance:	AR1 <sup>4)</sup>
Bond strength:	B 1,5
Impact Resistance:	IR 4
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

← \*)

<sup>1)</sup> Last two digits of the year in which the marking was affixed.

<sup>2)</sup> Min. classification, please refer to the individual test certificate.

<sup>3)</sup> No performance determined.

<sup>4)</sup> Not broadcast with sand.

**\*) Please fill in your relevant producer address**

**Note**

The following chapter is only mandatory for European countries.

**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.

<b>CE</b>	
0921	
Sika Deutschland GmbH Kornwestheimerstraße 103-107 D - 70439 Stuttgart	
08 <sup>1)</sup>	
0921–CPD–2017	
EN 1504-2	
Surface Protection Product Coating <sup>2)</sup>	
Abrasion resistance (Taber test):	< 3000 mg
Permeability to CO <sub>2</sub> :	S <sub>D</sub> > 50 m
Permeability to water vapour:	Class III (S <sub>D</sub> > 50 m)
Capillary absorption and permeability to water:	w < 0.1 kg/m <sup>2</sup> x h <sup>0,5</sup>
Resistance to severe chemical attack: <sup>3)</sup>	Class I
Impact resistance:	Class I
Adhesion strength by pull-off test:	≥ 2.0 N/mm <sup>2</sup>
Fire Classification: <sup>4)</sup>	E <sub>fl</sub>

← \*)

← \*)

<sup>1)</sup> Last two digits of the year in which the marking was affixed.

<sup>2)</sup> Tested as a part of a system build-up with Sikafloor®-156, Sikafloor®-161 and Sikafloor®-220 W Conductive.

<sup>3)</sup> Please refer to the Sikafloor® Chemical Resistance Chart.

<sup>4)</sup> Min. classification, please refer to the individual test certificate.

**\*) Please fill in your relevant producer address and notified body.**

**EU Regulation 2004/42**

**VOC - 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®-262 AS N** is < 500 g/l VOC for the ready to use product.

**USGBC**

**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



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