

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, electrostatic conductive, coloured epoxy resin covering. Suitable for use in hot and tropical climatic conditions.

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 for example 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

SUSTAINABILITY

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 / CERTIFICATES

- 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 accordance 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 N 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

Composition	Epoxy		
Packaging	Part A	21 kg containers	
	Part B	4 kg containers	
	Part A + B	25 kg ready to mix units	
Appearance / Colour	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>		
Shelf life	12 months from date of production		
Storage conditions	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.		
Density	Part A	~1.69 kg/l	(ASTM D1475-13)
	Part B	~1.03 kg/l	
	Mixed resin	~1.54 kg/l	
	Filled resin 1 : 0.4*	~1.73 kg/l	
	<p>All Density values at +23 °C *Filled with quartz sand aggregate of size 0.08-0.20mm: Sikadur®-504</p>		
Solid content by weight	~97 %		
Solid content by volume	~97 %		
Volatile organic compound (VOC) content	<50 g/l	(SCQAMD, Rule 1168)	
	Filled resin 1 : 0.4 ratio, with Sikadur®-504		

TECHNICAL INFORMATION

Shore D Hardness	~80 (28 d/+23 °C) Filled resin 1 : 0.4 ratio, with Sikadur®-504	(ASTM D2240-15)
Abrasion Resistance	<50 mg (CS 10 / 1000 / 1000) (28 d/+23 °C) Filled resin 1 : 0.4 ratio, with Sikadur®-504	(ASTM D4060-14) (Taber Abraser Test)
Compressive Strength	≥70 N/mm ² (28 d/+23 °C) Filled resin 1 : 0.4 ratio, with Sikadur®-504	(ASTM C579-18)
Tensile Strength in Flexure	~40 N/mm ² (28 d/+23 °C) Filled resin 1 : 0.4 ratio, with Sikadur®-504	(ASTM C580-18)
Resistance to Impact	1.75 kg-m Filled resin 1 : 0.4 ratio, with Sikadur®-504	(ASTM D2794-93)
Chemical Resistance	Resistant to many chemicals. Please contact Sika Technical Department.	
Temperature Resistance	Exposure*	Dry heat
	Permanent	+50 °C
	Short-term max. 7 d	+80 °C
	Short-term max. 2 h	+100 °C
	<p>Short-term moist/wet heat* up to +80 °C where exposure is only occasional (Such as during steam cleaning etc.) *No simultaneous chemical and mechanical exposure.</p>	

Electrostatic Behaviour

Resistance to ground ¹⁾	$R_g < 10^9 \Omega$	(IEC 61340 - 4 - 1)
Typical average resistance to ground ²⁾	$R_g \leq 10^6 \Omega$	(DIN EN 1081)

¹⁾ This product fulfils the requirements of ATEX 137

²⁾ Readings may vary, depending on ambient conditions (such as temperature, humidity) and measurement equipment.

SYSTEMS**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**

Self-smoothing wearing course (Film thickness ~1.5 mm)

Product

Sikafloor®-262 AS N filled with Sikadur®-504

Consumption

Max. 2.5 kg/m² Binder + Sikadur®-504
Depending on the temperature the filling grade varies from:
1 : 0.1 pbw (2.3 + 0.2 kg/m²) to 1 : 0.4 pbw (1.8 + 0.7 kg/m²)

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. / +35 °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. / +35 °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**

+10 °C

+20 °C

+30 °C

Time

~40 min

~25 min

~15 min

Applied Product Ready for Use**Temperature**

+10 °C

+20 °C

+30 °C

Foot traffic

~30 h

~24 h

~16 h

Light traffic

~5 d

~3 d

~2 d

Full cure

~10 d

~7 d

~5 d

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/mm²) with a minimum pull off strength of 1.5 N/mm². The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

If in a 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 example 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 example Large-Surface Scraper No. 656, Toothed blades No. 25 (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 maximum 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 EQUIPMENT

Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

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 INFORMATION

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".

IMPORTANT CONSIDERATIONS

- 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 0.08 - 0.20 mm from (Sikadur®-504). 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/m²) 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 CO₂ and H₂O 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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.

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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ISO 9001: Sika UAE LLC,
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Sika Saudi Arabia Co. Ltd,
Sika Qatar LLC
ISO 14001: Sika UAE LLC,
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Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC,
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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

Product Data Sheet

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