

Sikafloor®-262 AS N Thixo

2-part electrostatic conductive textured epoxy coating

Product Description Sikafloor®-262 AS N Thixo is a two part, textured, high-build coloured epoxy resin coating.

"Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)"

Uses

- Decorative and protective electrostatic conductive textured coating 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
- Slip resistance
- Easy to clean
- Economical
- Liquid proof
- Total solid

Test

Approval / Standards Textured, high-build coloured epoxy resin coating according to EN 1504-2: 2004 and EN 13813, DoP 02 08 01 02 014 0 000010 2017, certified by Factory Production Control Body No. 0921, certificate 2017, and provided with the CE-mark.

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 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 discolouration and colour variation, this has no influence on the function and performance of the coating.

Packaging	Part A:	22 kg containers
	Part B:	4 kg containers
	Part A+B:	26 kg ready to mix units

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.
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Technical Data

Chemical Base	Epoxy
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Density	Part A:	~ 1.69 kg/l	(DIN EN ISO 2811-1)
	Part B:	~ 1.03 kg/l	
	Mixed resin:	~ 1.53 kg/l	
	All Density values at +23°C		

Solid Content	~ 97% (by volume) / ~97% (by weight)
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Electrostatic Behaviour	Resistance to ground ¹⁾ :	$R_g < 10^9 \Omega$	(IEC 61340-4-1)
	Typical average resistance to ground ²⁾ :	$R_g < 10^6 \Omega$	(DIN EN 1081)
	¹⁾ This product fulfils the requirements of ATEX 137 ²⁾ Readings may vary, depending on ambient conditions (i.e. temperature, humidity) and measurement equipment.		

Mechanical / Physical Properties

Compressive Strength	Resin: ~ 80 N/mm ² (28 days / +23°C)	(EN 196-1)
Flexural Strength	Resin: ~ 40 N/mm ² (28 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))

Resistance

Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.
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Thermal Resistance

Exposure*	Dry heat
Permanent	+50°C
Short-term max. 7 d	+80°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.

USGBC	Sikafloor®-262 AS N Thixo conforms to the requirements of LEED
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LEED Rating	EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings SCAQMD Method 304-91 VOC Content < 100 g/l
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System Information

System Structure	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 Thixo
Note: This system configuration must be fully complied with as described and may not be changed.		

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Primer	Sikafloor® -156 / -161	0.3 - 0.5 kg/m ²
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 ²
Wearing course textured (Film thickness ~ 0.5 mm)	Sikafloor® -262 AS N Thixo	0.75 kg/m ²

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.

Substrate Quality

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 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. 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®-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 = 84,6 : 15,4 (by weight)												
Mixing Time	<p>Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 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>												
Mixing Tools	Sikafloor®-262 AS N Thixo must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.												
Application Method / Tools	<p>Prior to application, confirm substrate moisture content, r.h. and dew point.</p> <p>If > 4% pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.</p> <p><i>Levelling:</i> Rough surfaces need to be levelled first because varying thickness of the Sikafloor®-262 AS N Thixo wearing course will influence the conductivity. Therefore use Sikafloor®-156 / -161 levelling mortar (see PDS).</p> <p><i>Placing of earthing points:</i> See below "Notes on Application / Limits".</p> <p><i>Application of Sikafloor® conductive primer:</i> See PDS of Sikafloor®-220 W conductive.</p> <p><i>Wearing course textured:</i> Sikafloor®-262 AS N Thixo (unfilled) is applied with a serrated trowel and then back-rolled (crosswise) with a textured roller.</p>												
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	<table border="1"><thead><tr><th>Temperatures</th><th>Time</th></tr></thead><tbody><tr><td>+10°C</td><td>~ 40 minutes</td></tr><tr><td>+20°C</td><td>~ 25 minutes</td></tr><tr><td>+30°C</td><td>~ 15 minutes</td></tr></tbody></table>	Temperatures	Time	+10°C	~ 40 minutes	+20°C	~ 25 minutes	+30°C	~ 15 minutes				
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Waiting Time / Overcoatability	<p>Before applying Sikafloor®-262 AS N Thixo on Sikafloor®-220 W Conductive allow:</p> <table border="1"><thead><tr><th>Substrate temperature</th><th>Minimum</th><th>Maximum</th></tr></thead><tbody><tr><td>+10°C</td><td>26 hours</td><td>7 days</td></tr><tr><td>+20°C</td><td>17 hours</td><td>5 days</td></tr><tr><td>+30°C</td><td>12 hours</td><td>4 days</td></tr></tbody></table> <p>Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.</p>	Substrate temperature	Minimum	Maximum	+10°C	26 hours	7 days	+20°C	17 hours	5 days	+30°C	12 hours	4 days
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Notes on Application / Limitations

This product may only be used by experienced professionals.

Do not apply Sikafloor®-262 AS N Thixo on substrates in which significant vapour pressure may occur.

Do not blind the primer.

Freshly applied Sikafloor®-262 AS N Thixo 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.

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 m ²	6 measurements
< 100 m ²	10-20 measurements
< 1000 m ²	50 measurements
< 5000 m ²	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 Sikafloor®-262 AS N Thixo 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. Ensure the longest distance of each point in the area is max. 10 m to the next earthing point. For longer distances, additional earthing points have to be placed. If site conditions do not allow placing of additional earthing points, longer distances (>10 m) have to be bridged with the help of copper tapes. 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 connections:

Per room at least 2 earthing points. The optimum number of earth connections depends on the local conditions and should be specified using available drawings.

Recommended measuring equipment for the measuring of the resistance to earth ground: Insulation Tester Metriso 2000 from Warmbier or comparable.

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 Thixo 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 Thixo 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 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 Thixo** is < 500 g/l VOC for the ready to use product.



SIKA LIMITED

Head Office · Watchmead · Welwyn Garden City · Hertfordshire · AL7 1BQ · United Kingdom
 Phone: +44 1 707 394444 · Fax: +44 1 707 329129 · www.sika.co.uk

