BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-262 AS CN

2-part epoxy electrostatically conductive coating

DESCRIPTION

Sikafloor®-262 AS CN is a two part, self-smoothing, electrostatically conductive, coloured epoxy resin coating.

USES

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

- For the production of electrostatically conductive and decorative, protective coatings on concrete or cement screeds
- 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
- Liquid proof
- Solvent-free
- Tight, glossy surface
- Slip resistant surface possible

APPROVALS / STANDARDS

- Conforms to the requirements of DIN IEC 61340-4-1

PRODUCT INFORMATION

Chemical Base	epoxy resin	
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
	Due to the nature of the carbon fibbers 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 radiation there may be some discolouration and colour deviation, this has no influence on the function and performance of the coating.	
Shelf Life	12 months from date of production	
Storage Conditions	stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.	

Density

Part A:	~ 1.9 kg/l
Part B:	~ 1.03 kg/L
Mixed resin:	~ 1.68 kg/l
Filled resin 1 : 0.3 :	~ 1.82 kg/l

All Density values at +23°C

Volatile Organic Compound (VOC) Content

<60 GB/T 22374

Solid Content by Weight

~100%

Solid Content by Volume

~100%

Shore D Hardness

approx. 77 GB/T 22374

Abrasion Resistance

<30mg GB/T 22374

Compressive Strength

~ 80 N/mm² GB/T 22374

Tensile Adhesion Strength

>1.5Mpa (concrete failure) GB/T 22374

Thermal Compatibility

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.

Chemical Resistance

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

Electrostatic Behaviour

Resistance to ground[1)] Rg	< $10^9\Omega$	IEC 61340-4-1
Typical average resistance to ground[2)]	≤ 10^6 Ω	DIN EN 1081

Note: It should be applied as a flooring system with Sikafloor-220 W Conductive
1) This product fulfils the requirements of ATEX 137
2) Readings may vary, depending on ambient conditions (i.e. temperature, humidity) and measurement equipment.

Mixing Ratio

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

Consumption

Coating System	Product	Consumption
Primer	Sikafloor®-156	0.3 - 0.5 kg/m²
Levelling (optional)	Sikafloor®-156	Refer to PDS of Sikafloor®-156
Conductive coat	Sikafloor®-220 W Conductive	0.08 - 0.10 kg/m²
Self-smoothing wearing course(Film thickness ~ 1.5 mm)	Sikafloor®-262 AS CN filled with quartz sand F34	2.5 kg/m² Binder +quartz sand F34 Depending on the temperature the filling grade varies from: 1 : 0.1 pbw (2.3 + 0.2 kg/m²) to 1 : 0.2 pbw (2.1 + 0.4 kg/m²)
Wearing course textured (Film thickness ~ 0.5 mm)	Sikafloor®-262 AS CN + Extender T	approx. 0.7-0.9 kg/m² +1~2% (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.
Product Temperature	+10°C min. / +30°C max.
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	~ 60 minutes
+20°C	~ 30 minutes
+30°C	~ 15 minutes

Waiting Time / Overcoating

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

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.

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

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.

LIMITATIONS

This product may only be used by experienced professionals.
Do not apply Sikafloor®-262 AS CN on substrates in which significant vapour pressure may occur.
Do not blind the primer.
Freshly applied Sikafloor®-262 AS CN 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.
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
Maximum 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 / m²
> 100 m²	10 measurements / 100 m²

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.

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 approx. 300 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 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 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 at least 2 earthling 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 CN in each area is applied from the same control batch numbers

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

EQUIPMENT

Sikafloor®-262 AS CN must be mechanically mixed using an electric power stirrer (300 - 400 rpm) or other suitable equipment.

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.
Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve a profiled open textured surface.
Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to 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 up in order to achieve an even surface. Unevenness influences the film thickness and thus the conductivity of the following layer.
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.
If in doubt apply a test area first.

MIXING

Prior to mixing stir part A mechanically. When all of part B has been added to part A, continuously mix for 2 minutes until a uniform mix has been achieved.
When parts A and B have been mixed, the quartz sand 0.1 - 0.3 mm must be mixed with part A and B 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.

APPLICATION

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 CN wearing course will influence the conductivity. Therefore use Sikafloor®-156 levelling mortar (see PDS).
Placing of earthing plates:
See below “IMPORTANT CONSIDERATIONS”.
Application of Sikafloor® conductive coat:
See PDS of Sikafloor®-220 W conductive. make sure that the electrical resistance is qualified before apply Sikafloor®-262 AS CN
Wearing course smooth:
Sikafloor®-262 AS CN is poured, spread evenly by means of a serrated trowel. Roll immediately in two directions with spiked roller to ensure even thickness. After spreading the material evenly, turn the serrated trowel and smooth the surface in order to achieve an aesthetically higher grade of finish.
Wearing course textured:
Sikafloor®-262 AS CN 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 / cured material can only be mechanically removed.

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.

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.

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