

PRODUCT DATA SHEET

Sikafloor®-2350 ESD CN

Electrostatic dissipative epoxy floor coating

DESCRIPTION

Sikafloor®-2350 ESD CN is a two-part, electrostatic dissipative, self-smoothing, coloured epoxy coating. It provides a slip-resistant, hard-wearing, seamless, low maintenance gloss finish.

USES

Sikafloor®-2350 ESD CN may only be used by experienced professionals.

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Sikafloor®-2350 ESD CN is used as a:

- Smooth roller coat
- Smooth wearing layer
- Seal coat or top coat for slip-resistant broadcast systems

Sikafloor®-2350 ESD CN is used on the following substrates:

- Concrete and cementitious substrates
- Please note: The Product may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Low VOC emissions
- Good resistance to abrasion
- Low odour during application
- Very good mechanical resistance

ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4
- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Material Ingredients under LEED® v4
- Contributes towards satisfying Indoor Environmental

Quality (EQ) Credit: Low-Emitting Materials under LEED® v4

APPROVALS / STANDARDS

- Approval for ESD protective products acc. IEC 61340-5-1, RISE Institute, No. ESD-20-0023
- Particle emission ISO 14644-1, Sikafloor®-2350 ESD, CSM Fraunhofer, SI 2011-1195
- Fire classification report, EN 13501-1, Ghent University, Report No. 20-1069-03
- Slip resistance DIN 51130, Roxeler, Certificate No. 020243-20-3
- Slip resistance, DIN 51130, Roxeler, Certificate No. 020243-20-2
- Slip resistance DIN 51130, Roxeler, Certificate No. 020243-20-2a
- Insulation Resistance DIN VDE 0100-600, kiwa, Test report No. P 12819-E
- Outgassing behavior ISO 14644-15, CSM Statement of Qualification, Fraunhofer IPA
- Outgassing Behavior, VOC/ SVOC, CSM Fraunhofer, Certificate No. SI 2011-1195
- Meet the standard GB/T 22374-2018 Floor Coatings

PRODUCT INFORMATION

Chemical Base	Epoxy		
Packaging	Part A	24.6 kg/pail	
	Part B	5.4 kg/pail	
	Part A + B	30 kg/set	
	Refer to the current price list for available packaging variations.		
Appearance / Colour	Part A	Coloured, liquid	
	Part B	Yellowish,liquid	
	Sikafloor®-2350 ESD CN is available in the approximate colors RAL 7032, 7035, 7047, 6000, 6010, 5024, 1014. For Other colors, please inquire Sika. Please note that bright and light colors (such as yellow and orange) are not recommended having effect on electrostatic behavior.		
	Under direct sun radiation there may be some discoloration and color deviation, this has no influence to the function and performance of the coating.		
Shelf Life	18 months from date of production		
Storage Conditions	The product must be stored in its original packaging, unopened and undamaged,in a dry environment at a temperature between +5 °C and +30 °C. Avoid direct sunlight.		
Density	Part A	~1.69 kg/L	GB/T 6750-2007
	Part B	~1.04 kg/L	
	Mix Resin	~1.52 kg/L	
	All Density values at +23°C.		

TECHNICAL INFORMATION

Shore D Hardness	~80,28days,23°C	EN ISO 868	
	~50	GB/T 22374-2018	
Abrasion Resistance	≤0.03g	GB/T 22374-2018	
Compressive Strength	~110MPa,28days,23°C	EN ISO 178	
	≥ 45 MPa	GB/T 22374-2018	
Tensile Strength in Flexure	~30MPa,28days,23°C	EN ISO 604	
Elongation at Break	> 1.5 MPa,7days	EN 1542	
	≥ 2.0MPa	GB/T 22374-2018	
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.		
Electrostatic Behaviour	Resistance to ground	< 10 ⁹ Ω	(IEC 61340-4-1)
	Body voltage generation	< 100 V	(IEC 61340-4-5)
	System resistance	< 10 ⁹ Ω	(IEC 61340-4-5)
	Note: Measurement results can be affected by ESD clothing, ambient conditions,measurement equipment, cleanliness of the floor and the test personnel.		
Service Temperature	Short-term, maximum 7 days		+60 °C
	IMPORTANT		
	Simultaneous mechanical and chemical strain		
	While the Product is exposed to temperatures up to +60 °C, simultaneous mechanical or chemical strain may cause damage to the Product. Do not expose the Product to chemical or mechanical strain at elevated temperatures.		

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 82 : 18 (by weight)		
Consumption	Coating system	Product	Consumption
	Primer	Sikafloor®-156/161L/161HC/151	0.3–0.5 kg/m²
	Earthing Kit	Sikafloor®-2017 Earthing Kit	Refer to the PDS
	Conductive Primer	Sikafloor®-220 W Conductive	0.08 - 0.1 kg/m²
	Wearing layer	Sikafloor®-2350 ESD CN	1.5–2.5 kg/m² filled with 10-20 % quartz sand 0.1–0.3 mm
	Smooth roller coat	Sikafloor®-2350 ESD CN	0.8 kg/m²
	Textured layer	Sikafloor®-2350 ESD CN with ~2 % (by weight) Sika® Extender T	0.7–0.8 kg/m²
Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.			
Ambient Air Temperature	+15°C min. / +30°C max		
Relative Air Humidity	80% max.		
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.		
Substrate Temperature	+15°C min. / +30°C max		
Substrate Moisture Content	< 4% pbw moisture content. Test method: Sika®-Tramex meter or CM - measurement. No rising moisture according to ASTM (Polyethylene-sheet).		
Pot Life	+15 °C		40 minutes
	+20 °C		25 minutes
	+30 °C		15 minutes
Note: 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
	+15 °C	~48 hours	~3 days
	+20 °C	~24 hours	~48 hours
	+30 °C	~16 hours	~36 hours
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			

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

- Only use suitable Sikadur type, 0.1-0.3 mm quartz sand, in smooth wearing layer mixture.
- Do not apply Sikafloor®-2350 ESD CN on substrates in which significant vapour pressure may occur.
- Do not blind the primer.
- Freshly applied Sikafloor®-2350 ESD CN must be protected from damp, condensation and water for at least 24 hours.
- 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.

- To ensure color consistency, use Sikafloor®-2350 ESD CN from the same lot number in the same area.
- Maximum layer thickness of wearing course: ~ 1.5 mm. Excessive thickness (more than 2.5 kg/m²) causes reduced conductivity.
- 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.
- **Prior to the application, a reference area must be made. The appearance, properties, and test method of this reference area must be recognized and accepted by the contractor or customer.** The contractor or customer can propose the desired conductive effect and test method in the 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 ²	1 measurement / m ²
10-100 m ²	10 - 20 measurements
> 100 m ²	10 measurements / 100 m ²

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®-2017 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 earthing points. The optimum number of earth connections depends on the local conditions and should be specified with documents.

Note: Resistance measurements are significantly affected by the clothing worn by the worker, e.g. ESD footwear, socks, weight, atmospheric conditions, the cleanliness of the probe and the floor.

- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking -reducing or breaking conductivity.
- Epoxy products may tarnish with the use of light. Tarnishing has no significant effect on the other properties of the product and is purely an aesthetic matter.

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.

APPLICATION INSTRUCTIONS

EQUIPMENT

Sikafloor®-2350 ESD CN must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

SUBSTRATE QUALITY / PRE-TREATMENT

- Concrete substrates must be sound and of sufficient compressive strength (minimum 25 MPa) with a minimum pull off strength of 1.5 MPa.
- 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 will influence 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

TEXTURED ROLLER COATING

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. Gradually add the required amount of Sika® Extender T (refer to Consumption).
4. IMPORTANT Do not mix excessively. Mix for a further 2 minutes until a uniform mix is achieved.
5. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
6. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

2-PART + AGGREGATE MIXING PROCEDURE

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. While mixing Parts A + B, gradually add the required filler or aggregates.
4. IMPORTANT Do not mix excessively. Mix for a further 2 minutes until a uniform mix is achieved.
5. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
6. During the final mixing stage, scrape down the sides

and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

7. Avoid excessive mixing that may introduce too much air.

2-PART MIXING PROCEDURE

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. **IMPORTANT** Do not mix excessively. Mix Part A + B continuously for ~3 minutes until a uniformly coloured mix is achieved.
4. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
5. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.
6. Avoid excessive mixing that may introduce too much air.

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.

SMOOTH WEARING LAYER

1. Pour the mixed Product onto the substrate. For the consumption, refer to Application Information.
2. Apply the Product evenly over the surface with a serrated trowel.
3. To achieve a smooth finish, smooth the surface with the flat side of a trowel.
4. Back roll the surface in two directions at right angles with a steel (preferred) or plastic spike roller.

TEXTURED WEARING LAYER

1. Pour the mixed Product onto the substrate. For the consumption, refer to Application Information.
2. Apply the Product evenly over the surface with a serrated trowel.
3. Back roll the surface in two directions at right angles with a textured roller.

ROLLER COATING

1. Pour the mixed Product onto the substrate. For the consumption, refer to Application Information.
2. Spread the Product evenly over the surface with a squeegee.
3. Back-roll the surface in two directions at right angles with a short pile roller.

Note: Maintain a "wet edge" during application for a seamless finish.

CLEANING OF TOOLS

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

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.

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Product Data Sheet

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