

PRODUCT DATA SHEET

Sikafloor®-1230 AS IN

4-part epoxy self-smoothing solvent free electrostatic conductive floor covering.

DESCRIPTION

Sikafloor®-1230 AS IN is a four parts, solvent free, self-smoothing, coloured epoxy resin flooring system.

USES

The Product is used as a:

- Smooth electrostatically conductive floor covering

The Product is used for the following application areas:

- Automotive facilities
- Electronic facilities and data centres
- Pharmaceutical facilities
- Storage areas
- Warehouses

The Product is suitable for areas with sensitive electronic equipment such as:

- CNC machinery
- Computer rooms
- Aircraft hangars
- Battery-charging rooms
- Areas with a high explosion risk

CHARACTERISTICS / ADVANTAGES

- Electrostatically conductive
- Good resistance to chemicals
- Good mechanical resistance
- Easy to clean and maintain
- Economical
- Impermeable to liquids
- Semi-gloss finish
- Low VOC

PRODUCT INFORMATION

Packaging	Part A:	5.0 kg container
	Part B:	3.25 kg container
	Part C:	8 kg bag
	Part D:	0.5 kg container
	Part A + B + C + D:	17.75 kg set
Appearance / Colour	Part A:	liquid, transparent resin
	Part B:	liquid, Light brown, Hardener
	Part C:	powder, white
	Part D:	Colour paste
	Sikafloor®-1230 AS IN is available in a range of colors, please consult with Sika representative	
Shelf life	12 months	

Storage conditions	Stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +15°C and +25°C.
Density	Mixed 1.52kg/l at 23°C
Solid content by weight	~100%
Solid content by volume	~100%

TECHNICAL INFORMATION

Abrasion resistance	45mg (1000 cycles, CS 17 wheel)	(ASTM D 4060)
Compressive strength	≥ 70 MPa at 7d	(ISO 604)
Flexural strength	>20 MPa at 7D	(ISO 178)
Tensile strength	> 10 MPa at 7D	(ISO 527)
Tensile adhesion strength	≥ 2.0 MPa (Concrete failure)	(EN 1542)
Chemical resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.	
Electrostatic behaviour	Resistance to ground	<1X10 ⁶ Ω EN 1081/ICE-61340-5-1
	Surface resistance	<1X10 ⁶ Ω EN 1081/ICE-61340-5-1
The above figures are intended as a guide only and should not be used as a basis for specifications.		

APPLICATION INFORMATION

Mixing ratio	Part A : part B : Part C : Part D = 5.0 : 3.25 : 8.0 : 0.5 (Mix full unit only)		
Consumption	Application	Product	Consumption
	Primer:	1 x Sikafloor®-161 HC	0.35 - 0.55 kg/m ²
	Earthing connection:	Earthing Kit/Copper tape	
	Conductive coat:	1 x Sikafloor®-220 W Conductive	0.1 kg/m ²
	Conductive topcoat:	1 x Sikafloor®-1230 AS IN	2.8 kg/m ²
These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.			
Ambient air temperature	+15 °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	+15 °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	Temperature	Time	
	+20 °C	~ 30 minutes	

Applied product ready for use

Temperature	Foot traffic	Light traffic	Full cure
+30 °C	~16 hours	~2 days	~5 days
+20 °C	~24 hours	~3 days	~7 days

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

SYSTEM INFORMATION

System structure	Application	Product
	Primer:	1 x Sikafloor®-161 HC
	Earthing connection:	Earthing Kit/ copper tape
	Conductive coat:	1 x Sikafloor®-223 W Conductive
	Conductive topcoat:	1 x Sikafloor®-1230 AS IN

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.

IMPORTANT CONSIDERATIONS

- This product may only be used by experienced professionals.
- Do not apply Sikafloor®-1230 AS IN on substrates in which significant vapour pressure may occur.
- Do not blind the primer.
- Freshly applied Sikafloor®-1230 AS IN 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.
- 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.
- 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 incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking - reducing or breaking conductivity.
- Please note: According to experience the selection of the clothing, such as ESD footwear and socks, weight of the test person, the ambient conditions, the probe and the cleanliness of the floor, has substantial influence on the results of measurement.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling,

storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS**EQUIPMENT**

Sikafloor®-1230 AS IN must be thoroughly mixed using a low speed electric stirrer (~300 rpm) or other suitable equipment.

SUBSTRATE QUALITY / PRE-TREATMENT

- Concrete substrates must be sound and of sufficient compressive strength (minimum 30 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

Sikafloor®-1230 AS IN is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A,B, C & D components to a temperature of approximately 15 to 25°C. Mixing Part A firstly & then add D (Colour paste) & finally add C (Powder) & mix for 3 minutes. Pour the entire contents into the another container & mix for 30 seconds. Do not mix by hand. Mix with a mechanical drill and

paddle at a low speed (ca.300rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. Do not work out of the original container. After proper mixing to a homogeneous consistency pour the mixed Parts A and B into a fresh container and mix for another minute.

APPLICATION

- Pour the mixed Product onto the substrate. Note: The consumption is specified in Application Information.
- Apply the Product evenly over the surface with a serrated trowel.
- To achieve a smooth finish, smooth the surface with the flat side of a trowel.
- Back roll the surface in two directions at right angles with a steel spike roller

Note: To ensure a uniform color, use only products from the same lot number

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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