

SYSTEM DATA SHEET

Sikafloor® MultiDur EB-31 ECF

Slip-resistant unicolour electrostatically conductive epoxy flooring system with high chemical resistance

PRODUCT DESCRIPTION

Sikafloor® MultiDur EB-31 ECF is a slip-resistant, coloured epoxy flooring system.

USES

Sikafloor® MultiDur EB-31 ECF installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

The System is used for:

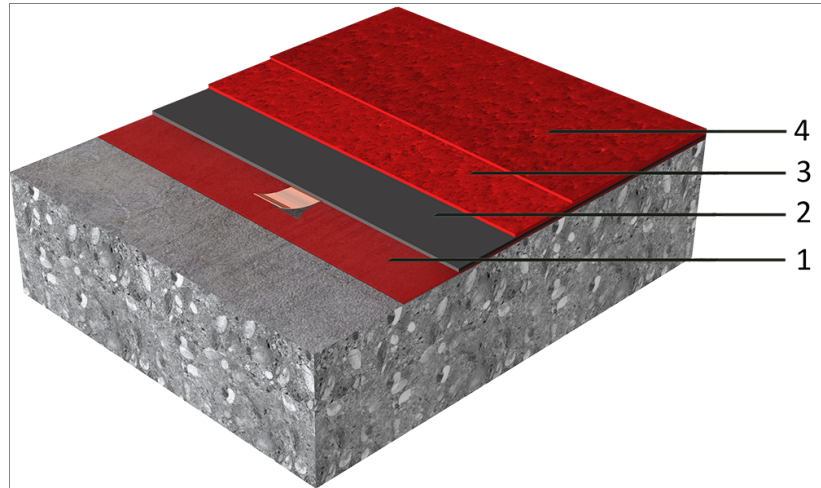
- Bunding areas
- Chemical and processing facilities
- Automotive facilities

CHARACTERISTICS / ADVANTAGES

- Electrostatically conductive
- Impermeable to liquids
- Good resistance to abrasion
- Very good mechanical resistance
- Very good resistance to specific chemicals

SYSTEM INFORMATION

System Structure



Layer	Product
1. Primer	Sikafloor®-150 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161 Contact Sika Technical Service for information on choosing the right primer for your project.
2. Conductive primer and Earthing connection	Sikafloor®-220 W Conductive + Sikafloor® Conductive Set
3. Conductive base coat and broadcast	Sikafloor®-381 ECF (unfilled), broadcast to excess with silicone carbide 0.5-1.0 mm.
4. Top coat	Sikafloor®-381 + 5 % by weight Sika® Thinner C

IMPORTANT

System structure

The system structure as described in the table must not be changed.

Composition	Epoxy
Appearance	Slip resistant, semi-gloss finish
Colour	Cured system colour Available in various colour shades.
Nominal thickness	2 mm to 2.5 mm

TECHNICAL INFORMATION

Tensile adhesion strength	≥ 1.5 MPa	(EN 1542)
Electrostatic Behaviour	Resistance to ground	$R_G < 10^9 \Omega$ (IEC 61340-4-1)
	Typical average resistance to ground	$R_G < 10^5 - 10^6 \Omega$

ECF MEASUREMENT CONDITIONS AND SPECIFICATIONS

All measurement values for the system stated in the System Data Sheet (except those referring to proof statements) were measured using the following equipment and ambient conditions:

Condition or Equipment	Specification
Size of ESD-footwear	42 (EU) (UK: 8; US: 8,5)
Test person weight	90 kg
Ambient conditions	+23 °C and 50 % r.h.
Measuring device for measuring resistance to ground	Metriso 2000 or 3000 (Warmbier) or comparable
Surface resistance probe	Carbon Rubber electrode. Weight: 2,50 kg
Rubber pad hardness	Shore A (60 ±10)

Measurement results during testing

Note: If values are lower or higher than required, additional measurements have to be carried out about 30 cm around the point where the faulty readings are located. If the re-measured values are in accordance with the requirements, the total area is acceptable.

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
Primer		Sikafloor®-150	1-2 × 0.3–0.5 kg/m ²
		Sikafloor®-151	
		Sikafloor®-156	
		Sikafloor®-161	
Levelling (if required)		Sikafloor®-150	Refer to the individual Product Data Sheet
		Sikafloor®-151	
		Sikafloor®-156	
		Sikafloor®-161	
Earthing connection		Sikafloor® Conductive Set	1 earthing point per approx. 200–300 m ² , min. 2 per room
Conductive primer		Sikafloor®-220 W Conductive	1 × 0.08–0.10 kg/m ²
Conductive base coat and broadcast		Sikafloor®-381 ECF (unfilled)	1 × 1.6 kg/m ²
		Broadcast to excess with silicone carbide 0.5-1.0 mm.	4.0-6.0 kg/m ²
Top coat		Sikafloor®-381 + 5 % by weight Sika® Thinner C	1 × 0.75-0.85 kg/m ²

Silicone carbide "SiC 18/35 in a splintery grain shape and a grain size of 0.5-1.0 mm" can be purchased from ESH-SIC GmbH, Günter-Wiebke-Str. 1, 50226 Frechen, Germany, <http://www.esk-sic.com>.

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 product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Ambient Air Temperature	Maximum	+30 °C
	Minimum	+10 °C
Relative Air Humidity	Maximum	80 % r.h.
Dew Point	Refer to the individual Product Data Sheet.	
Substrate Temperature	Maximum	+30 °C
	Minimum	+10 °C
Substrate Moisture Content	Refer to the individual Product Data Sheet.	

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

Refer to the following method statements:

- Sika Method Statement — Sikafloor® and Sikagard® evaluation and preparation of surfaces
- Sika Method Statement — Sikafloor® mixing and application

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

APPLICATION

ESD CONDUCTIVITY MEASUREMENTS

Recommended number of conductivity measurements is specified in the following table:

Ready applied area	Number of measurements
< 10 m ²	6
≥ 10 m ² and < 100 m ²	10 to 20
≥ 100 m ² and < 1000 m ²	50
≥ 1000 m ² and < 5000 m ²	100

If the measurements yield values that are outside of the agreed specification, follow these steps:

1. Carry out one additional measurement within a radius of approximately 30 cm around the original measuring point.

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If the value of the new measurement meets the agreed specification, the original measurement can be disregarded. If the value of the new measurement does not meet the agreed specification, repeat the measurement described above until the fulfilment of the requirements have been verified. If the requirements cannot be verified, contact Sika Technical Services.

INSTALLATION OF EARTHING POINTS

Refer to Sika Method Statement: Sika Method Statement — Sikafloor® mixing and application

Number of earthing connections per room: Minimum of 2 earthing connections. The optimum number of earthing connections depends on the local conditions and must be specified on drawings or other contract documentation.

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.

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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