

SYSTEM DATA SHEET

Sikafloor® MultiDur EB-56 ESD

Slip-resistant, conductive epoxy ESD flooring system

PRODUCT DESCRIPTION

Sikafloor® MultiDur EB-56 ESD is an epoxy ESD flooring system with a slip resistant textured finish. The system is designed to dissipate electrostatic charges (ESD) and protect sensitive equipment in electrostatic protected areas (EPA).

USES

Sikafloor® MultiDur EB-56 ESD installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

Sikafloor® MultiDur EB-56 ESD is used in industrial buildings such as:

- Automotive facilities
- Electronic facilities and data centres
- Pharmaceutical facilities

Please note:

- The System may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Provides reliable and long-lasting ESD protection
- Functional finish with slip-resistant properties
- Good resistance to specific chemicals
- Electrostatically conductive
- Very good mechanical resistance
- Low VOC emissions
- Low Airborne Molecular Contaminants (AMC) emissions

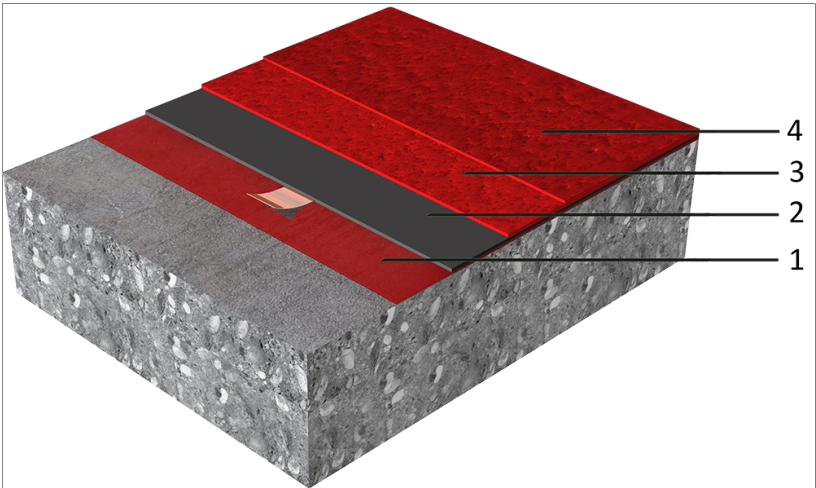
APPROVALS / STANDARDS

- Determination of anti-slip properties DIN 51130, TZUS, Report No. 030-062173
- Fire Classification report EN 13501-1, GHENT, Report No. CR 21-0970-01

SYSTEM INFORMATION

System Structure

Sikafloor® MultiDur EB-56 ESD



Layer	Product
1. Primer	Sikafloor®-150 Sikafloor®-150 Plus Sikafloor®-151 Sikafloor®-156 Sikafloor®-161 Contact Sika Technical Service for information on choosing the right primer for your project.
2. Conductive primer	Sikafloor® Conductive Set Sikafloor®-220 W Conductive
3. Top coat	Sikafloor®-2350 ESD
4. Conductive wearing layer	Sikafloor®-2350 ESD filled 20 % with Quartz sand (0.1–0.3 mm) Broadcast in excess with Silicone carbide (0.5-1.0 mm)

Composition	Epoxy
Colour	Available in the approximate colours RAL 1014, RAL 5009, RAL 5012, RAL 5024, RAL 6010, RAL 6021, RAL 6027, RAL 7001, RAL 7005, RAL 7011, RAL 7015, RAL 7016, RAL 7024, RAL 7030, RAL 7032, RAL 7034, RAL 7035, RAL 7036, RAL 7037, RAL 7038, RAL 7040, RAL 7042, RAL 7043, RAL 7045, RAL 7047, RAL 9002, RAL 9005, NCS 3500-N
Nominal thickness	2 mm to 3 mm

TECHNICAL INFORMATION

Tensile adhesion strength	≥ 1.5 MPa	(EN 1542)
Chemical Resistance	Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.	
Electrostatic Behaviour	Resistance to ground	$R_g < 10^9 \Omega$ (IEC 61340-4-1)
	Typical average resistance to ground	$R_g < 10^5 - 10^6 \Omega$
	Body voltage generation	< 100 V (IEC 61340-4-5)
	System resistance	$R_g < 10^9 \Omega$

ESD 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 % relative humidity
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)
Measuring device for measuring body voltage generation	Walking Test Kit WT 5000 (Warmbier) or comparable

IMPORTANT

ESD footwear requirements

The ESD shoes used in the EPA must have a resistance of < 5 MOhm according to IEC 61340-4-3 at climate class 1 (12 % relative humidity and +23 °C). In order to achieve charges of < 30 volts of human body charge during the walking test (at 12 % relative humidity and +23 °C), we recommend using the following ESD shoes: Weeger ESD clog, art. 48512-30, www.schuhweeger.de.

Note: Measurement results can be affected by ESD clothing, ambient conditions, measurement equipment, cleanliness of the floor and the test personnel.

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Primer	Sikafloor®-150	1-2 × 0.3–0.5 kg/m ²
		Sikafloor®-150 Plus	
		Sikafloor®-151	
		Sikafloor®-156	
		Sikafloor®-161	
	Conductive primer	Sikafloor® Conductive Set	1 earthing point per 200–300 m ² , minimum 2 per room.
		Sikafloor®-220 W Conductive	
	Conductive wearing layer	Sikafloor®-2350 ESD filled 20 % with Quartz sand (0.1–0.3 mm)	1.1 kg/m ²
		Broadcast in excess with Silicone carbide (0.5–1.0 mm)	4–6 kg/m ²
	Top coat	Sikafloor®-2350 ESD	0.75–0.85 kg/m ²

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	Maximum	+30 °C
	Minimum	+15 °C
Relative Air Humidity	Maximum	80 % r.h.
Dew Point	Refer to the individual Product Data Sheet.	
Substrate Temperature	Maximum	+30 °C
	Minimum	+15 °C

Substrate Moisture Content

Refer to the individual Product Data Sheet.

Waiting Time / Overcoating

For the waiting time to overcoating of the primer, refer to the individual Product Data Sheet.

Before applying Sikafloor®-2350 ESD on Sikafloor®-220 W Conductive, allow:

Temperature	Minimum	Maximum
+15 °C	26 hours	7 days
+20 °C	17 hours	5 days
+30 °C	12 hours	4 days

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	Full cure
+10 °C	48 hours	3 days	7 days
+20 °C	24 hours	48 hours	4 days
+30 °C	16 hours	36 hours	3 days

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

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 — Evaluation and preparation of surfaces for flooring systems
- 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.

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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