

SYSTEM DATA SHEET

Sikafloor® MultiDur EB-55 ESD

Slip resistant, dissipative epoxy ESD flooring system

PRODUCT DESCRIPTION

Sikafloor® MultiDur EB-55 ESD is an epoxy, slip resistant finish, ESD flooring system. The system is designed to dissipate electrostatic charges (ESD) and protect sensitive equipment in electrostatic protected areas (EPA).

USES

Sikafloor® MultiDur EB-55 ESD may only be used by experienced professionals.

Sikafloor® MultiDur EB-55 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

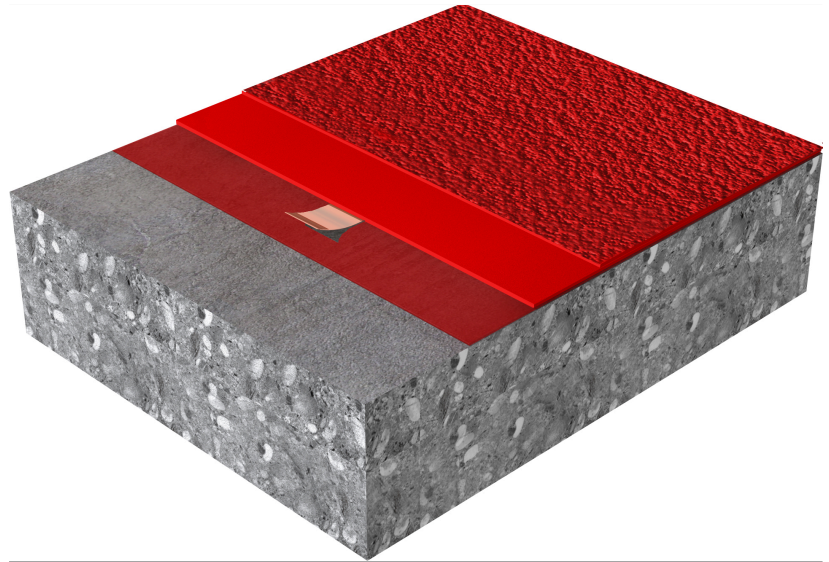
APPROVALS / STANDARDS

- Fire classification report EN 13501-1, GHENT, Report No. CR 21-0969-01

SYSTEM INFORMATION

System Structure

Sikafloor® MultiDur EB-55 ESD



Layer	Product
Primer	Sikafloor®-150 Plus, or Sikafloor®-151, or Sikafloor®-1590
Earthing connection	Sikafloor® Conductive Set
Conductive wearing layer	Sikafloor®-2350 ESD filled 20 % with Quartz sand (0.1–0.3 mm)
Broadcast	Broadcast in excess with Sika F5 AS or Sika F20 AS Aggregate
Top coat	Sikafloor®-2350 ESD

Contact Sika Technical Service for information on choosing the right primer for your project.

Composition	Epoxy
Colour	Please refer to the Product Data Sheet of Sikafloor®-2350 ESD for the available colour options.
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	$R_G < 10^7-10^8 \Omega$	
Body voltage generation	$< 100 \text{ V}$	(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 $< 5 \text{ MOhm}$ according to IEC 61340-4-3 at climate class 1 (12 % relative humidity and +23 °C). In order to achieve charges of $< 30 \text{ volts}$ 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.schuh-weeger.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 Plus, or Sikafloor®-151, or Sikafloor®-1590	1–2 × 0.3–0.5 kg/m ²
Levelling (if required)	Sikafloor®-150 Plus, or Sikafloor®-151, or	Refer to the individual Product Data Sheet
Earthing Connection	Sikafloor® Conductive Set	Refer to the individual Product Data Sheet
Conductive wearing layer	Sikafloor®-2350 ESD filled 20 % with Quartz sand (0.1–0.3 mm)	1.1 kg/m ² resin
Broadcast	Broadcast in excess with Sika F5 AS or F20 AS Conductive Aggregate	4–6 kg/m ² broadcast
Top coat	Sikafloor®-2350 ESD	0.75–0.85 kg/m ²

Note: Consumption data is theoretical and does not account for additional material due to surface porosity, surface profile, variations in level, wastage, or other factors. 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.
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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 broadcasted Sikafloor®-2350 ESD, allow:			
	Temperature	Minimum		
	+15 °C	30 hours		
	+20 °C	24 hours		
	+30 °C	16 hours		
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 Product 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

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

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 requirements have been fulfilled.

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

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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