

## SYSTEM DATA SHEET

# Sikafloor® MultiDur EB-55 ESD

Slip resistant, dissipative epoxy ESD flooring system

## 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.

The System 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.

## FEATURES

- Good resistance to chemicals
- Electrostatically conductive
- Very good mechanical resistance
- Low VOC emissions
- Low Airborne Molecular Contaminants (AMC) emissions

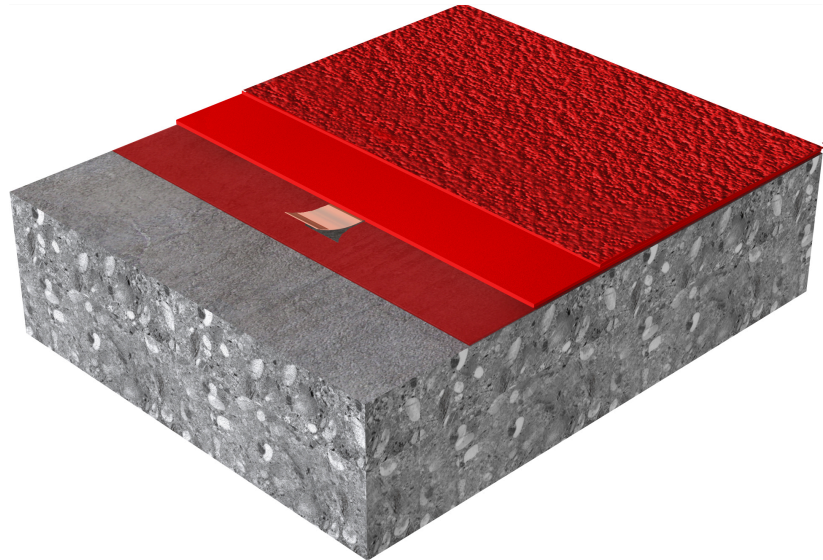
## CERTIFICATES AND TEST REPORTS

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

# SYSTEM INFORMATION

System structure

Sikafloor® MultiDur EB-55 ESD



Layer	Product
1. Primer	Sikafloor®-150 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161 Sikafloor®-1590 Contact Sika technical service for information on choosing the right primer for your project.
2. Earthing connection	Sikafloor® Conductive Set
3. Conductive wearing layer + Broadcast in excess	Sikafloor®-2350 ESD filled with 20 % 0.1–0.3 mm quartz sand + Silicone carbide 0.5-1.0. mm
4. Top coat	Sikafloor®-2350 ESD

Composition	Epoxy
Colour	Cured system colour Available in the approximate colours RAL 1014, RAL 6000, RAL 6010, RAL 6020, RAL 6021, RAL 6027, RAL 6034, RAL 7001 RAL 7005, RAL 7011, RAL 7021, RAL 7032, RAL 7035, RAL 7036, RAL 7038, RAL 7040, RAL 7045, RAL 7047, RAL 9002

Nominal thickness 2 mm to 3 mm

## TECHNICAL INFORMATION

Tensile adhesion strength  $\geq 1.5$  MPa (EN 1542)

## Electrostatic behaviour

Resistance to ground	$R_G < 10^9 \Omega$	(IEC 61340-4-1)
Typical average resistance to ground	$R_G < 10^7-10^8 \Omega$	
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  $< 5 \text{ MOhm}$  according to IEC 61340-4-3 at climate class 1 (12 % relative humidity and +23 °C). In order to achieve charges of  $< 30$  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](http://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 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161 Sikafloor®-1590	1-2 × 0.3–0.5 kg/m <sup>2</sup>
	Levelling	Sikafloor®-150 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161 Sikafloor®-1590	Refer to the individual Product Data Sheet.
	Earthing connection	Sikafloor® Conductive Set	1 earthing point per ~200 m <sup>2</sup> to 300 m <sup>2</sup> . Min 2 per room
	Conductive wearing layer + Broadcast in excess	Sikafloor®-2350 ESD filled with 20 % 0.1–0.3 mm quartz sand + Silicone carbide 0.5-1.0 mm	1 × ~1.1 kg/m <sup>2</sup> + ~4–6 kg/m <sup>2</sup>
	Top coat	Sikafloor®-2350 ESD	~0.75–0.85 kg/m <sup>2</sup>

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.

<b>Ambient air temperature</b>	Maximum	+30 °C
	Minimum	+15 °C
<b>Relative air humidity</b>	Maximum	80 % r.h.
<b>Dew point</b>	Refer to the individual Product Data Sheet.	
<b>Substrate temperature</b>	Maximum	+30 °C
	Minimum	+15 °C
<b>Substrate moisture content</b>	Refer to the individual Product Data Sheet.	
<b>Waiting time to overcoating</b>	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:	
	<b>Temperature</b>	<b>Minimum</b>
	+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.		

## BASIS OF PRODUCT DATA

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 INFORMATION

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

#### 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 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.