BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® MultiDur ET-56 ESD

Textured, Conductive, Epoxy Electrostatic Discharge (ESD) Flooring System

PRODUCT DESCRIPTION

Sikafloor® MultiDur ET-56 ESD is an ESD epoxy 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 ET-56 ESD may only be used by experienced professionals.

The System can be used in industrial buildings such as:

- Automotive facilities
- Electronic facilities, data centres and chip manufacturing
- Pharmaceutical and biotechnology facilities
- Aerospace assembly areas and clean rooms
- Film studios
- General manufacturing assembly areas

Please note:

- The System may only be used by experienced professionals.
- The System may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Provides reliable and long-lasting ESD protection
- Good resistance to chemicals
- Electrostatically conductive
- High mechanical resistance
- Low VOC / AMC emissions
- Textured gloss finish

APPROVALS / STANDARDS

- Fire Classification Report EN 13501-1, GHENT, No. CR 21-0906-01.

SYSTEM INFORMATION

System Structure

Layer	Product
Primer or Scratch Coat	Sikafloor®-150 Sikafloor®-151
Earthing Connection	Sikafloor® Conductive Set
Conductive Primer	Sikafloor®-220 W Conductive
Conductive Wearing Layer	Sikafloor®-2350 ESD + Sika® Extender T

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

Composition

Epoxy

Colour

Cured System Colour	Available in the approximate colours: RAL 1014, RAL 6000, RAL 6010, RAL 6020, RAL 6027, RAL 6034, RAL 7001 RAL 7005, RAL 7011, RAL 7021, RAL 7032, RAL 7035, RAL 7038, RAL 7040, RAL 7045, RAL 7047, RAL 9002

Nominal thickness

~1 mm

TECHNICAL INFORMATION

Chemical Resistance

Sikafloor®-2350 ESD provides chemical resistance - please refer to Product Data Sheet.

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	$R_G < 10^9\ \Omega$	

Note: The System fulfils the requirements of ATEX 153.
Note: Measurement results can be affected by ESD clothing, ambient conditions, measurement equipment, cleanliness of the floor and the test personnel.
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 / +23 °C). In order to achieve charges of < 30 volts of human body charge during the walking test (at 12 % relative humidity / +23 °C), we recommend using the following ESD shoes: Weeger ESD clog, art. 48512-30, www.schuh-weeger.de.

Service Temperature

Short-term, maximum 12 hours	+60 °C

IMPORTANT
No Simultaneous Mechanical and Chemical Strain
While the product is exposed to temperatures up to +60 °C, do not also subject it to either chemical or mechanical strain, as it may cause damage to the product.

APPLICATION INFORMATION

Consumption

Layer	Product	Consumption
Primer or Scratch Coat	Sikafloor®-150 Sikafloor®-151	~0.3–0.5 kg/m²
Levelling	Sikafloor®-150 Sikafloor®-151	Refer to the individual Product Data Sheet.
Earthing Connection	Sikafloor® Conductive Set	1 earthing point per ~200 m² to 300 m². Minimum 2 per room
Conductive Primer	Sikafloor®-220 W Conductive	1 × 0.08–0.10 kg/m²
Conductive Wearing Layer	Sikafloor®-2350 ESD + Sika® Extender T	~0.8 kg/m² + 2 % Sika® Extender T by weight

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	+15 °C

Relative Air Humidity

Maximum	80 %

Dew Point

Refer to the individual Product Data Sheet.

Substrate Temperature

Minimum	+15 °C
Maximum	+30 °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
+15 °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 apply when the last layer of the system has been applied. Times are 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

- Sika® Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems.

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 m²	6
≥ 10 m² and < 100 m²	10 to 20
≥ 100 m² and < 1000 m²	50
≥ 1000 m² and < 5000 m²	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.
2. If the value of the new measurement meets the agreed specification, the original measurement can be disregarded.
3. If the value of the new measurement does not meet the agreed specification, you may repeat the measurement described above, until the fulfilment of the requirements have been verified.
4. If the requirements cannot be verified, contact Sika® Technical Services.

INSTALLATION OF EARTHING POINTS
Refer to Sika® Method Statement: Mixing and Application of Flooring Systems.
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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