

## SYSTEM DATA SHEET

# Sikafloor® MultiDur ET-56 ESD

Textured conductive epoxy ESD flooring system

## 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 and data centres
- Pharmaceutical facilities

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 / CERTIFICATES

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

## SYSTEM INFORMATION

System structure	Layer	Product
	Primer or Scratch Coat	Sikafloor®-161 Sikafloor®-160
	Earthing connection	Sikafloor® Conductive Set
	Conductive primer	Sikafloor®-220 W Conductive
	Conductive wearing layer	Sikafloor®-2350 ESD + Sika® Extender T
<b>Composition</b>	Epoxy	
<b>Colour</b>	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
<b>Nominal thickness</b>	~1 mm	

## TECHNICAL INFORMATION

<b>Chemical resistance</b>	Sikafloor®-2350 ESD provides the chemical resistance. Refer to Product Data Sheet.		
<b>Electrostatic behaviour</b>	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	$< 100 \text{ V}$	(IEC 61340-4-5)
	System resistance	$R_G < 10^9 \Omega$	
<p>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.  <b>IMPORTANT</b>  <b>ESD footwear requirements</b>            The ESD shoes used in the EPA must have a resistance of <math>&lt; 5 \text{ MOhm}</math> according to IEC 61340-4-3 at climate class 1 (12 % relative humidity / <math>+23 \text{ }^\circ\text{C}</math>). In order to achieve charges of <math>&lt; 30 \text{ volts}</math> of human body charge during the walking test (at 12 % relative humidity / <math>+23 \text{ }^\circ\text{C}</math>), we recommend using the following ESD shoes: Weeger ESD clog, art. 48512-30, <a href="http://www.schuhweeger.de">www.schuhweeger.de</a>.</p>			
<b>Service temperature</b>	Short-term, maximum 12 hours	$+60 \text{ }^\circ\text{C}$	
<p><b>IMPORTANT</b>  <b>No simultaneous mechanical and chemical strain</b>            While the product is exposed to temperatures up to <math>+60 \text{ }^\circ\text{C}</math>, do not also subject it to either chemical or mechanical strain, as it may cause damage to the product.</p>			

## APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Primer or scratch coat	Sikafloor®-161 Sikafloor®-160	$\sim 0.3 - 0.5 \text{ kg/m}^2$
	Levelling	Sikafloor®-160 Sikafloor®-161	Refer to the individual Product Data Sheet.
	Earthing connection	Sikafloor® Conductive Set	1 earthing point per $\sim 200 \text{ m}^2$ to $300 \text{ m}^2$ . Min 2 per room
	Conductive primer	Sikafloor®-220 W Conductive	$1 \times 0.08 - 0.10 \text{ kg/m}^2$
	Conductive wearing layer	Sikafloor®-2350 ESD + Sika® Extender T	$\sim 0.8 \text{ kg/m}^2 + 2 \%$ Sika® Extender T by weight
<p>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.</p>			
<b>Ambient air temperature</b>	Maximum	$+30 \text{ }^\circ\text{C}$	
	Minimum	$+15 \text{ }^\circ\text{C}$	
<b>Relative air humidity</b>	Maximum	80 %	
<b>Dew point</b>	Refer to the individual Product Data Sheet.		
<b>Substrate temperature</b>	Minimum	$+15 \text{ }^\circ\text{C}$	
	Maximum	$+30 \text{ }^\circ\text{C}$	

**Substrate moisture content**

Refer to the individual Product Data Sheet.

**Waiting time to 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:

<b>Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
+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**

<b>Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
+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.

**BASIS OF PRODUCT DATA**

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 INFORMATION**

- Sika® Method Statement: Evaluation and preparation of surfaces for flooring systems

**ECOLOGY, HEALTH AND SAFETY**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing 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:

<b>Ready applied area</b>	<b>Number of measurements</b>
< 10 m <sup>2</sup>	6
≥ 10 m <sup>2</sup> and < 100 m <sup>2</sup>	10 to 20
≥ 100 m <sup>2</sup> and < 1000 m <sup>2</sup>	50
≥ 1000 m <sup>2</sup> and < 5000 m <sup>2</sup>	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, you may re-

peat 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: Mixing &amp; 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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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