

## SYSTEM DATA SHEET

# Sikafloor® MultiFlex PS-36 ESD

Smooth low-VOC polyurethane ESD flooring system

## PRODUCT DESCRIPTION

Sikafloor® MultiFlex PS-36 ESD is a coloured, conductive, low-VOC, crack-bridging polyurethane flooring system. It provides a hard-wearing, seamless, tough-elastic, low-maintenance finish which is resistant to many chemicals.

## USES

Sikafloor® MultiFlex PS-36 ESD may only be used by experienced professionals.

The System is used in industrial buildings such as:

- Electronic facilities and data centres
- Clean rooms
- Microbiology and microchemistry production areas
- Automotive facilities

## SYSTEM INFORMATION

System Structure	Layer	Product
	1. Primer	Sikafloor®-150, or Sikafloor®-151, or Sikafloor®-1590
	2. Base coat + Earthing connection	Sikafloor® BC 375 N + Sikafloor® Conductive Set
	3. ESD Topcoat	Sikafloor®-305 W ESD
<p><b>System structure:</b> The system structure described in the table must not be changed. Contact Sika Technical Service for information on choosing the right primer for your project</p>		
Composition	Polyurethane	
Appearance	Smooth matt finish	
Colour	Available in various colour shades.	
Nominal thickness	~1.5–2.0 mm	

## TECHNICAL INFORMATION

Please note:

- The System may only be used for interior applications.

## CHARACTERISTICS / ADVANTAGES

- Low VOC emissions
- Easy to apply
- Easy to refurbish, topcoat can be recoated
- Good resistance to UV exposure
- Good yellowing resistance
- Conforms to the requirements of ANSI/ESD S20.20 and IEC 61340-5-1

## APPROVALS / STANDARDS

Fire classification report EN 13501-1, GHENT, No. CR 24-0148-01

<b>Tensile adhesion strength</b>	$\geq 1.5 \text{ MPa}$	(EN 1542)
<b>Reaction to Fire</b>	Class Bfl-s1	(EN 13501-1)
<b>Electrostatic Behaviour</b>	Resistance to ground	$R_G < 10^9 \Omega$ (IEC 61340-4-1)
	Typical average resistance to ground	$R_G < \sim 10^5\text{--}10^6 \Omega$ (EN 1081)
	Body voltage generation	$< 100 \text{ V}$ (IEC 61340-4-5)
	System Resistance (Person/Floor/Shoe)	$R_G < 10^9 \Omega$ (IEC 61340-4-5)

#### 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:

<b>Condition or Equipment</b>	<b>Specification</b>
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

#### 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.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 Plus, or Sikafloor®-151, or Sikafloor®-1590	1-2 × 0.3–0.5 kg/m <sup>2</sup>
	Levelling (if required)	Sikafloor®-150 Plus, or Sikafloor®-151, or Sikafloor®-1590	Refer to the individual Product Data Sheet.
	Base coat	Sikafloor® BC 375 N	2.0 kg/m <sup>2</sup>
	Earthing connection	Sikafloor® Conductive Set	1 Earthing point per approx. 200–300 m <sup>2</sup> , min. 2 per room
	ESD Topcoat	Sikafloor®-305 W ESD	1 - 2 × 0.18-0.2 kg/m <sup>2</sup> /layer diluted with 10% of water

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	+10 °C

Relative Air Humidity	Maximum	75 % r.h.
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Dew Point	Refer to the individual Product Data Sheet.
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Substrate Temperature	Maximum	+30 °C
	Minimum	+10 °C

Substrate Moisture Content	Refer to the individual Product Data Sheet.
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Waiting Time / Overcoating	When using Sikafloor®-1590 refer to the individual Product Data Sheet for specific information on waiting time to overcoating. Before applying Sikafloor® BC 375 N on the primer layer allow:		
	Temperature	Minimum	Maximum
	+10 °C	~17 hours	~4 days
	+20 °C	~9 hours	~48 hours
	+30 °C	~7 hours	~24 hours
	Before applying Sikafloor®-305 W ESD on Sikafloor® BC 375 N allow:		
	Temperature	Minimum	Maximum
	+10 °C	~30 hours	~7 days
	+20 °C	~24 hours	~5 days
	+30 °C	~16 hours	~3 days
	Before applying Sikafloor®-305 W ESD on Sikafloor®-305 W ESD allow:		
	Temperature	Minimum	Maximum
	+10 °C	~48 hours	~10 days
	+20 °C	~24 hours	~8 days
	+30 °C	~16 hours	~7 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	~5 days	~10 days
	+20 °C	~24 hours	~3 days	~8 days
	+30 °C	~16 hours	~2 days	~7 days

Note: Times apply when the last layer of the system has been applied. Times are affected by changing ambient conditions, particularly temperat-

## 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 — Sikafloor® and Sikagard® evaluation and preparation of surfaces
- 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

The recommended number of conductivity measurements is specified in the following table:

Application Area	Number of measurements
< 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, 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

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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