

## SYSTEM DATA SHEET

# Sikafloor® MultiFlex PS-34 ECF

Smooth, low VOC emission, polyurethane conductive flooring system

### PRODUCT DESCRIPTION

Sikafloor® MultiFlex PS-34 ECF is a polyurethane, coloured, low VOC emission, conductive, resin based flooring system. It provides a hard-wearing, seamless, chemical resistant, tough-elastic, crack bridging, low maintenance, smooth gloss finish.

### USES

Sikafloor® MultiFlex PS-34 ECF may only be used by experienced professionals.

Sikafloor® MultiFlex PS-34 ECF is used in industrial buildings such as:

- Automotive facilities
- Aircraft hangars
- Electronic facilities and data centres
- Logistics facilities and warehouses
- Pharmaceutical facilities
- Manufacturing facilities and workshops

Please note:

- The System may only be used for interior applications.

### CHARACTERISTICS / ADVANTAGES

- Electrostatically conductive
- Easy to apply
- Flexible and tough elastic
- Good crack-bridging ability
- Good mechanical resistance
- Good resistance to specific chemicals

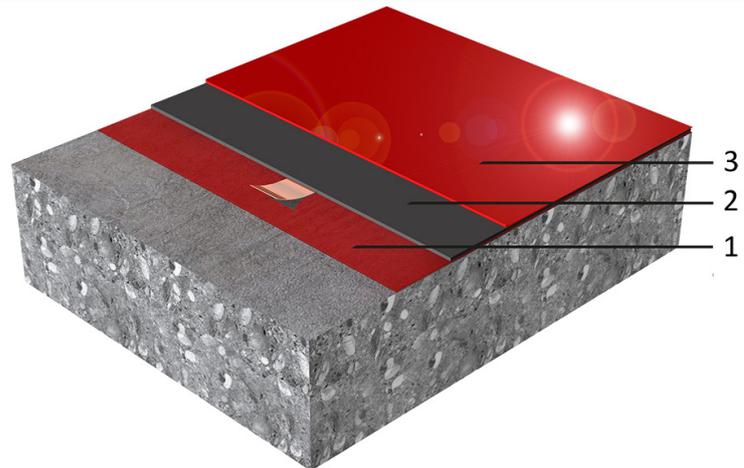
### APPROVALS / STANDARDS

- Reaction to fire EN 13501-1, Sikafloor® MultiFlex PS-34 ECF, GHENT, Test Report No. CR 24-0634-01

# SYSTEM INFORMATION

System Structure

Sikafloor® MultiFlex PS-34 ECF



Layer	Product
Primer	Sikafloor®-150 Plus, or Sikafloor®-151
Conductive primer	Sikafloor® Conductive Set Sikafloor®-220 W Conductive
Conductive wearing layer	Sikafloor® BC 375 NAS

**System structure:** 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.

Composition	Combination of epoxy and polyurethane
Appearance	Smooth gloss finish
Colour	Available in various colour shades.
Nominal thickness	~1.5 mm

## TECHNICAL INFORMATION

Tensile adhesion strength	≥ 1.5 MPa	(EN 1542)
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## Electrostatic Behaviour

Resistance to ground	$R_G < 10^9 \Omega$	(IEC 61340-4-1)
Typical average resistance to ground	$R_G < 10^5\text{--}10^6 \Omega$	(EN 1081)

### ECF 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 % r.h.
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)

### Measurement results during testing

Note: If values are lower or higher than required, carry out additional measurements about 30 cm around the point where the faulty readings are located. If the re-measured values are in accordance with the requirements, the total area is acceptable. If the requirements cannot be verified, contact Sika Technical Services.

## APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Primer	Sikafloor®-150 Plus, or Sikafloor®-151	1-2 × 0.3–0.5 kg/m <sup>2</sup>
	Levelling (if required)	Sikafloor®-150 Plus, or Sikafloor®-151, or	Refer to the individual Product Data Sheet.
	Conductive primer	Sikafloor® Conductive Set Sikafloor®-220 W Conductive	1 earthing point per 200–300 m <sup>2</sup> , minimum 2 per room. 0.08–0.10 kg/m <sup>2</sup>
	Conductive wearing layer	Sikafloor® BC 375 NAS	1 × 2.0–2.5 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 the product to a test area to calculate the exact consumption of the specific substrate conditions and proposed application equipment.

Ambient Air Temperature	Maximum	+30 °C
	Minimum	+10 °C

Relative Air Humidity	Maximum	75–80 % 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	Before applying Sikafloor®-220 W Conductive 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® BC 375 NAS on Sikafloor®-220 W Conductive allow:

Temperature	Minimum	Maximum
+10 °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
	+10 °C	48 hours	3 days	7 days
	+20 °C	16 hours	2 days	5 days
	+30 °C	8 hours	24 hours	4 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

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

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.

**SIKA LIMITED**

Watchmead  
Welwyn Garden City  
Hertfordshire, AL7 1BQ  
Tel: 01707 394444  
Web: [www.sika.co.uk](http://www.sika.co.uk)  
Twitter: @SikaLimited



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