

SYSTEM DATA SHEET

Sikafloor® MultiFlex PS-34 ECF

Smooth, low VOC, polyurethane conductive flooring system

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.

The System 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.

FEATURES

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

CERTIFICATES AND TEST REPORTS

Fire Classification EN 13501-1, GHENT

PRODUCT INFORMATION

Packaging

Shelf life

Storage conditions

TECHNICAL INFORMATION

Tensile adhesion strength ≥ 1.5 MPa (EN 1542)

Electrostatic behaviour

Resistance to ground	$R_g < 10^9 \Omega$
Typical average resistance to ground	$R_g < 10^5\text{--}10^6 \Omega$

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.

SYSTEM INFORMATION

System structure	Layer	Product
	1. Primer	Sikafloor®-150 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161 Contact Sika Technical Service for information on choosing the right primer for your project
	2. Conductive primer + Earthing connection	Sikafloor®-220 W Conductive + Sikafloor® Conductive Set
	3. Conductive wearing layer	Sikafloor® BC 375 N AS
	IMPORTANT System structure The system structure as described in the table must not be changed.	
Composition	Combination of epoxy and polyurethane	
Appearance	Smooth gloss finish	
Colour	Available in various colour shades	
Nominal thickness	~1.5 mm	

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Primer	Sikafloor®-150	1-2 × 0.3–0.5 kg/m ²
		Sikafloor®-151	
		Sikafloor®-156	
		Sikafloor®-161	
Leveling		Sikafloor®-150	Refer to the individual Product Data Sheet.
		Sikafloor®-151	
		Sikafloor®-156	
		Sikafloor®-161	
Conductive primer		Sikafloor®-220 W Conductive	1 × 0.08–0.10 kg/m ²
Earthing connection		Sikafloor® Conductive Set	1 earthing point per approx. 200–300 m ² , min. 2 per room
Conductive wearing layer		Sikafloor® BC 375 N AS	1 × 2.0-2.5 kg/m ²

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	+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 to 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 N AS 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	Foot traffic	Full cure
	+10 °C	24 hours	3 days	10 days
	+20 °C	16 hours	2 days	5 days
	+30 °C	8 hours	24 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

Refer to the following method statements:

- Sika Method Statement — Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement — Sikafloor® mixing and application

IMPORTANT CONSIDERATIONS

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.

ECOLOGY, HEALTH AND SAFETY

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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.