BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® MultiDur EB-41 ECF

Slip-resistant, conductive, epoxy floor covering with high mechanical resistance

DESCRIPTION

Sikafloor® MultiDur EB-41 ECF is a slip-resistant, electrostatically conductive epoxy flooring system for loading and unloading areas.

USES

Sikafloor® MultiDur EB-41 ECF may only be used by experienced professionals.

The System is used in industrial buildings such as:
- Automotive facilities
- Logistics facilities and warehouses
- Manufacturing facilities and workshops
- Pharmaceutical facilities

Please note:
The System may only be used for exterior applications

FEATURES

- Electrostatically conductive
- Very good mechanical resistance
- Good resistance to UV exposure

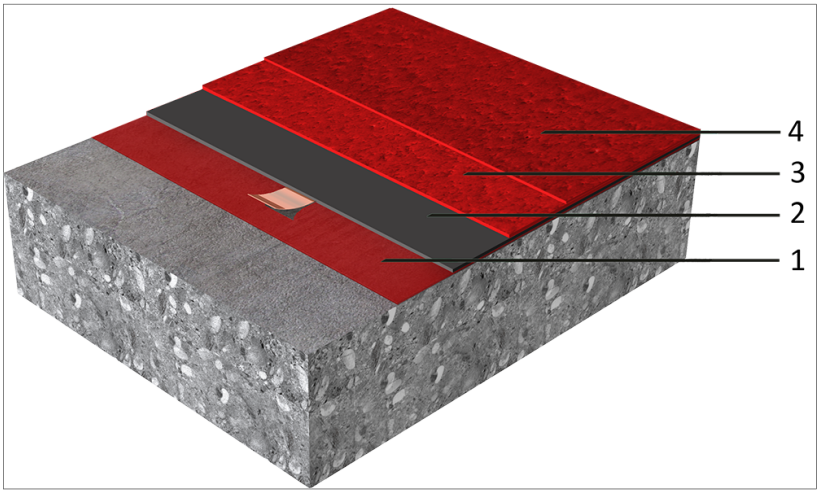
CERTIFICATES AND TEST REPORTS

- Fire classification report EN 13501-1, GHENT, No. CR 23-0010-01

SYSTEM INFORMATION

System structure

Sikafloor® MultiDur EB-41 ECF



Layer	Product
1. Primer	Sikafloor®-151 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 base coating + Broadcast	Sikafloor®-262 AS, broadcast to excess with silicone carbide 0.5-1.0 mm.
4. Final topcoat	Sikafloor®-359 N

Composition	Epoxy and Polyurethane	
Appearance	Slip resistant, matt finish	
Colour	Cured system colour	Available in various colour shades.
	Please contact Sika® representative for advice on local colour range.	
Nominal thickness	3 mm to 4 mm	

TECHNICAL INFORMATION

Tensile adhesion strength	≥ 1.5 MPa		(EN 1542)
Reaction to fire	Class B_{fl}-S1		(EN 13501-1)
Electrostatic behaviour	Resistance to ground	$R_G < 10^9$ Ω	(IEC 61340-4-1)
	Typical average resistance to ground	$R_G < 10^5$–10^6 Ω	
	Body voltage generation	< 100 V	(IEC 61340-4-5)
	System resistance	$R_G < 10^9$ Ω	

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

Ambient air temperature	Maximum	+30 °C
	Minimum	+10 °C
Relative air humidity	Maximum	80 % r.h.

Dew point

Refer to the individual Product Data Sheet.

Substrate temperature

Maximum	+30 °C
Minimum	+10 °C

Substrate moisture content

Refer to the individual Product Data Sheet.

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	2 days
+30 °C	7 hours	1 day

Before applying Sikafloor®-262 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

Before applying Sikafloor®-359 N on Sikafloor®-262 AS broadcast with conductive aggregate allow:

Temperature	Minimum	Maximum
+10 °C	30 hours	3 days
+20 °C	24 hours	2 days
+30 °C	16 hours	1 day

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	7 days
+30 °C	16 hours	2 days	5 days

Note: Times are approximate and will be 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 INFORMATION

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

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.

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