BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® MultiDur EB-39 ECF

Conductive, slip-resistant, unicolour epoxy flooring system with high chemical resistance

PRODUCT DESCRIPTION

Sikafloor® MultiDur EB-39 ECF is an electrostatically conductive, slip-resistant, coloured epoxy flooring system with high chemical resistance.

USES

Sikafloor® MultiDur EB-39 ECF installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

The System is used in industrial buildings such as:
- Chemical and processing facilities
- Electronic facilities and data centres

Please note:
- The System may only be used by experienced professionals.
- The Product may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

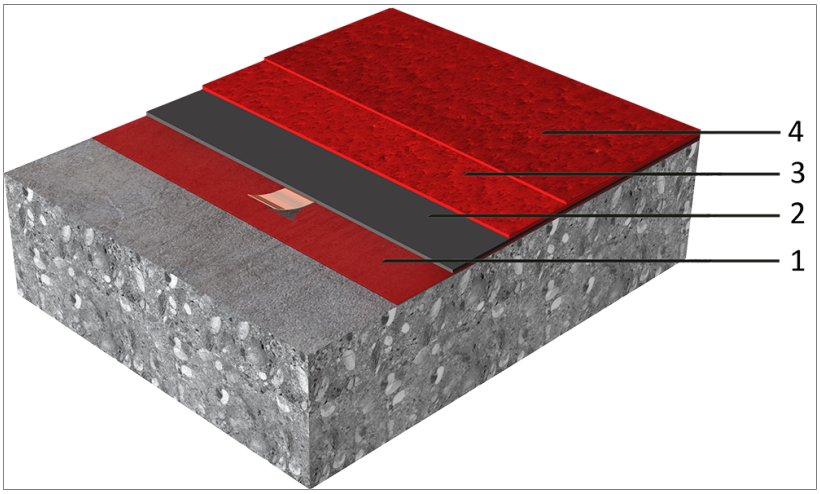
- Good resistance to abrasion
- Electrostatically conductive
- Very good resistance to specific chemicals
- Good mechanical resistance
- Impermeable to liquids

APPROVALS / STANDARDS

- Fire Classification report EN 13501-1, GHENT, No. CR 22-0995-01

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 base coating + Broadcast	Sikafloor®-390 ECF N, broadcast to excess with silicone carbide 0.5-1.0 mm.
4.	Final topcoat	Sikafloor®-390 N + 5 % wt.-% Sika® Thinner C

Composition	Epoxy	
Appearance	Slip resistant, semi-gloss finish	
Colour	Cured system colour	Available in various colour shades.
Nominal thickness	2 mm to 2.5 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	$R_g < 10^6$ Ω	(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 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161	1-2 × 0.3–0.5 kg/m²
Levelling	Sikafloor®-150 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161	Refer to the individual Product Data Sheet.
Earthing connection	Sikafloor® Conductive Set	1 earthing point per approx. 200 -300 m², min. 2 per room.
Conductive primer	Sikafloor®-220 W Conductive	1 × 0.08-0.10 kg/m²
Conductive base coating	Sikafloor®-390 ECF N, unfilled	1 × 1.6 kg/m² Binder, broadcast to excess with silicone carbide 0.5-1.0. mm*
Final topcoat	Sikafloor®-390 N + 5 % Sika® Thinner C	1 × 0.75-0.85 kg/m²

*Silicone carbide "SiC 18/35 in a splintery grain shape and a grain size of 0.5-1.0 mm" can be purchased from ESH-SIC GmbH, Günter-Wiebke-Str. 1 , 50226 Frechen, Germany, http://www.esk-sic.com.
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	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 / 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®-390 ECF N 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®-390 N on Sikafloor®-390 ECF N broadcast with conductive aggregate allow:

Temperature	Minimum	Maximum
+10 °C	~ 48 hours	~ 3 days
+20 °C	~ 24 hours	~ 2 days
+30 °C	~ 18 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	~ 6 days	~ 14 days
+20 °C	~ 30 hours	~ 4 days	~ 10 days
+30 °C	~ 20 hours	~ 3 days	~ 7 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 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

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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 the 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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