

SYSTEM DATA SHEET

Sikafloor® MultiDur EB-42 ECF

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

DESCRIPTION

Sikafloor® MultiDur EB-42 ECF is an electrostatically conductive, slip-resistant, coloured epoxy flooring system with very good chemical resistance.

USES

Sikafloor® MultiDur EB-42 ECF may only be used by experienced professionals.

Sikafloor® MultiDur EB-42 ECF is used in industrial buildings such as:

- Chemical and processing facilities
- Electronic facilities and data centres

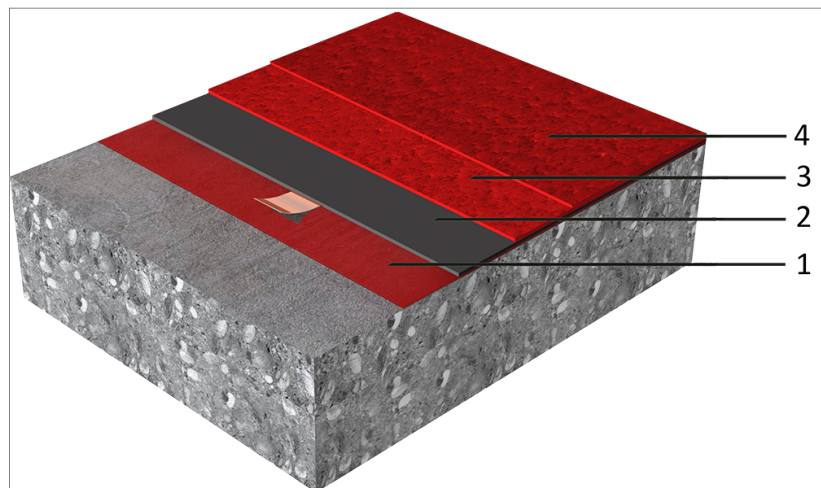
FEATURES

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

SYSTEM INFORMATION

System structure

Sikafloor® MultiDur EB-42 ECF



Layer	Product
Primer	Sikafloor®-150 Sikafloor®-151 Contact Sika technical service for information on choosing the right primer for your project.
Conductive primer	Sikafloor® Conductive Set Sikafloor®-220 W Conductive
Wearing layer	Sikafloor®-392 ECF Broadcast to excess with Silicon carbide (0.5–1.0 mm)
Top coat	Sikafloor®-392
Composition	Epoxy
Appearance	Slip-resistant, semi-gloss finish
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 Typical average resistance to ground	$R_G < 10^9 \Omega$ $R_G < 10^5 - 10^6 \Omega$ (IEC 61340-4-1)

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 Contact Sika technical service for information on choosing the right primer for your project.	1–2 × 0.3–0.5 kg/m²
	Conductive primer	Sikafloor® Conductive Set Sikafloor®-220 W Conductive	1 earthing point per 200–300 m², minimum 2 per room. 0.08–0.10 kg/m²
	Wearing layer	Sikafloor®-392 ECF Broadcast to excess with Silicon carbide (0.5–1.0 mm)	1.6 kg/m² resin 4–6 kg/m² broadcast
	Top coat	Sikafloor®-392	1 × 0.75–0.85 kg/m²
<p>*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-Wiebkke-Str. 1, 50226 Frechen, Germany, http://www.esk-sic.com.</p> <p>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.</p>			
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	When using Sikafloor® P 922, refer to the individual Product Data Sheet for specific information on 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®-392 ECF 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®-392 on Sikafloor®-392 ECF 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	10 days
+20 °C	30 hours	4 days	7 days
+30 °C	20 hours	3 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 Product 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

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing 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

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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