

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-40 ECF

Smooth, unicolour, conductive epoxy, flooring system with very good chemical resistance

DESCRIPTION

Sikafloor® MultiDur ES-40 ECF is an electrostatic conductive, self-smoothing, coloured, epoxy flooring system with very good chemical resistance.

USES

Sikafloor® MultiDur ES-40 ECF may only be used by experienced professionals.

Sikafloor® MultiDur ES-40 ECF is used in industrial buildings such as:

- Electronic facilities and data centres
- Chemical and processing facilities
- Bunding areas

Please note:

- The System may only be used by experienced professionals.

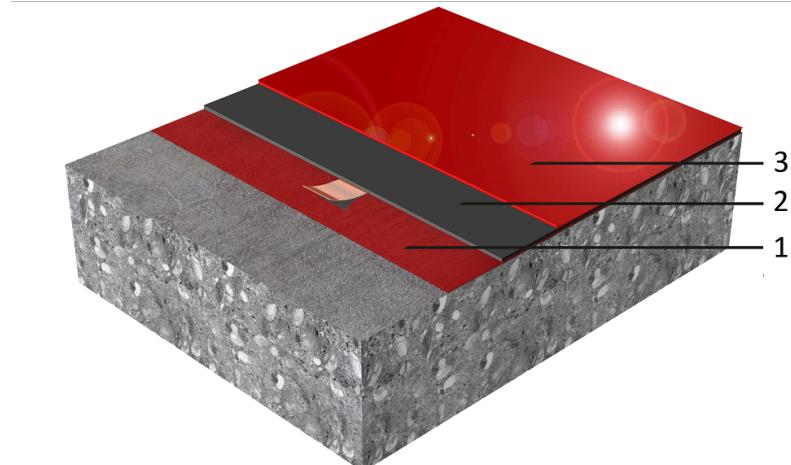
FEATURES

- Electrostatically conductive
- Very good resistance to specific chemicals
- Good crack-bridging ability
- Impermeable to liquids

SYSTEM INFORMATION

System structure

Sikafloor® MultiDur ES-40 ECF



Layer	Product
1. Primer	Sikafloor®-150 Sikafloor®-151 Contact Sika Technical Service for information on choosing the right primer for your project.
2. Conductive primer	Sikafloor® Conductive Set
3. Wearing layer	Sikafloor®-220 W Conductive Sikafloor®-392 ECF

Composition	Epoxy
Appearance	Smooth, gloss finish
Colour	Available in various colour shades. Exact colour matching Note: Due to the nature of carbon fibres providing the conductivity, it is not possible to achieve exact colour matching. This effect increases with very bright colours such as yellow and orange.
Nominal thickness	1.5 mm

TECHNICAL INFORMATION

Tensile adhesion strength	$\geq 1.5 \text{ MPa}$	(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	
	1. Primer	Sikafloor®-150 Sikafloor®-151	0.35–0.55 kg/m ²	
	2. Conductive primer	Sikafloor® Conductive Set Sikafloor®-220 W Conductive	1 earthing point per 200–300 m ² , minimum 2 per room. 0.08–0.10 kg/m ²	
	3. Wearing layer	Sikafloor®-392 ECF	2.5 kg/m ²	
<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	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	
<p>Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.</p>				
Applied product ready for use	Temperature	Foot traffic	Light traffic	Full cure
	+10 °C	48 hours	3 days	10 days
	+20 °C	30 hours	2 days	7 days
	+30 °C	20 hours	1 day	5 days
<p>Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.</p>				

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

ESD CONDUCTIVITY MEASUREMENTS

Recommended number of conductivity measurements is specified in the following table:

Ready applied area	Number of measurements
< 10 m ²	6
≥ 10 m ² and < 100 m ²	10 to 20
≥ 100 m ² and < 1000 m ²	50
≥ 1000 m ² and < 5000 m ²	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 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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4 / 4