

BUILDING TRUST

SYSTEM DATA SHEET Sikafloor[®] MultiDur ET-39 ECF/V

TEXTURED, ELECTROSTATICALLY CONDUCTIVE, CHEMICALLY RESISTANT, TOUGH-ELASTIC, EPOXY COATING FOR VERTICAL SURFACES

PRODUCT DESCRIPTION

Sikafloor[®] MultiDur ET-39 ECF/V is a two part, textured, electrostatically conductive, tough-elastic, coloured epoxy coating system with high chemical resistance. "Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)".

USES

Sikafloor[®] MultiDur ET-39 ECF/V may only be used by experienced professionals.

It is used as:

- Crack-bridging and chemically resistant epoxy coating for vertical concrete surfaces and screed surfaces in bund areas for the protection against water contaminating liquids (contact Sika technical service for specific information)
- Electrostatically conductive epoxy coating for vertical surfaces subject to chemical exposure which are likely to crack

CHARACTERISTICS / ADVANTAGES

- High chemical resistance
- Crack-bridging
- Liquid proof
- Electrostatically conductive
- Good sag resistance

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SYSTEM INFORMATION

System Struct

System Structure			1 2 3 4	
	1. Primer 2. Conductive undercoat + Ea	Sikafloor®-150/-1 sikafloor®-390 EC		
	connection	-	+ Sika [®] Earthing Kit	
	3. Conductive primer		Sikafloor [®] -220 W Conductive	
	4. Final conductive coating	Sikafloor®-390 EC 4.0 % Extender T	F filled with 2.5 -	
	The system configurations as described must be fully complied with and may not be changed.			
Composition	Ероху			
Appearance	Orange peel textured, semi-gloss			
Colour	Almost unlimited choice of colour shades. Due to the nature of carbon fibres providing the conductivity, it is not pos- sible to achieve exact colour matching. With very bright colours (such as yellow and orange), this effect is increased. Under direct sun light there may be some variations and colour variation, this has no influence on the function and performance of the coating.			
Nominal Thickness	~ 1.5 mm			
TECHNICAL INFORMATION				
Electrostatic Behaviour	Resistance to ground ¹	R _g < 10 ⁹ Ω	(IEC 61340-4-1)	
		$R_g < 10^6 \Omega$	- (DIN EN 1081)	
	¹ In accordance with IEC 61340-5-1 and A	NSI/ESD S20.20.		

 $^1\,$ In accordance with IEC 61340-5-1 and ANSI/ESD S20.20. $^2\,$ Readings may vary, depending on ambient conditions (i.e. temperature, humidity) and measurement equipment.

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Consumption	Coating	Product	<u> </u>	nsumption	
	Primer	Sikafloor®-150/-2	151 1-2	x ~ 0.3 - 0.5 kg/m ²	
	Scratch coat (if re- quired)	Sikafloor®-150/-:	151 Ref	er to PDS of Sika- pr®-150/-151	
	Conductive undercoa	at Sikafloor®-390 E0 with 2.5 - 4.0 % E	CF filled 1 x		
	Earthing connection	tender T Sika® Earthing Ki	$\frac{1}{1}$	arthing point per ap	
			pro 2 pr	x. 200 -300 m², min er room.	
	Conductive primer	Sikafloor®-220 W ductive	/ Con- 1 x	0.08 - 0.10 kg/m²	
	Final conductive coa	ting Sikafloor®-390 E0 with 2.5 - 4.0 % E tender T		1.25 kg/m²	
	_	These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.			
Ambient Air Temperature	+10 °C min. / +30 °C	+10 °C min. / +30 °C max.			
Relative Air Humidity	80 % r.h. max.	80 % r.h. max.			
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.				
Substrate Temperature	+10 °C min. / +30 °C	+10 °C min. / +30 °C max.			
Substrate Moisture Content	Test method: Sika Tr	<4 % pbw moisture content. Test method: Sika Tramex Meter, CM-measurement or Oven-Dry-Method. No rising moisture according to ASTM (Polyethylene-sheet).			
Waiting Time / Overcoating		Before applying Sikafloor [®] -390 ECF on Sikafloor [®] -156/161 allow:			
	Substrate temperatu	re Minimum	Ma	Maximum	
	+10 °C	24 hours	4 da	ays	
	+20 °C	12 hours	2 da	•	
	+30 °C			1 days	
		Before applying Sikafloor®-220 W Conductive on Sikafloor®-390 ECF allow			
	Substrate temperatu			Maximum	
	+10 °C +20 °C	48 hours 24 hours		<u>6 days</u> 4 days	
	+20 °C			2 days	
		Before applying Sikafloor [®] -390ECF on Sikafloor [®] -220 W Conductive allow:			
		Substrate temperature Minimum Maximum			
	+10 °C	26 hours	7 da	ays	
	+20 °C	17 hours	5 da	•	
	+30 °C	12 hours	4 da		
	••	te and will be affecte perature and relative		ng ambient condi-	
Applied Product Ready for Use			t traffic	Full cure	
			hours	~ 14 days	
) hours	~ 10 days	
	+30 °C ~	20 hours ~ 20) hours	~ 7 days	
	Note: Times are appr conditions	oximate and will be a	ffected by c	hanging ambient	

PRODUCT INFORMATION

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Please refer to individual Product Data Sheet.

Shelf Life	Please refer to individual Product Data Sheet.	
Storage Conditions	Please refer to individual Product Data Sheet.	

FURTHER DOCUMENTS

Please refer to:

- Sika[®] Information Manual Mixing and Application of Flooring Systems
- Sika[®] Information Manual Surface Evaluation & Preparation

LIMITATIONS

- Due to the nature of carbon fibres providing the conductivity, surface irregularities might be possible.
 This has no influence on the function and performance of the coating.
- Do not apply the Sikafloor[®] MultiDur ET-39 ECF/V system on substrates in which significant vapour pressure may occur.
- Do not blind the primer.
- The freshly applied final conductive coating of the Sikafloor[®] MultiDur ET-39 ECF/V system must be protected from damp, condensation and water for at least 24 hours.
- Only start application of Sikafloor* conductive primer after the priming coat has dried tack-free all over.
 Otherwise there is a risk of wrinkling or impairing of the conductive properties.
- Under certain conditions, underfloor heating combined with high point loading, may lead to imprints in the resin.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking - reducing or breaking conductivity.
- For exact colour matching, ensure the final conductive coating of the Sikafloor® MultiDur ET-39 ECF/V system in each area is applied from the same control batch numbers.
- Please note, that measuring results of the orange peel textured Sikafloor[®] MultiDur ET-39 ECF/V system may vary due to a difference in surface profile.
- The test person, ambient conditions, measurement equipment, cleanliness of the floor have a substantial influence on the measurement results.

All measurement values for the Sikafloor[®] MultiDur ET-39 ECF/V system stated in the system data sheet (apart from the ones referring to proof statements) were measured under the following conditions:

Ambient conditions:	<u>+23 °C/50%</u>
Measurement device for	Metriso 2000 (Warmbier)
the Resistance to Ground:	or comparable
Surface resistance probe:	Tripod electrode acc.
	DIN EN 1081

The number of conductivity measurements is strongly recommended to be as shown in the table below:

Number of measurements
6 measurements
10-20 measurements
50 measurements
100 measurements

In case of values lower/higher as required, additional measurements has to be carried out, approx. 30 cm around the point with insufficient readings. If the newly measured values are in accordance with the requirements, the total area is acceptable. Installation of earthing points: Please refer to the Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".

Numbers of earth connections: Per room at least 2 earthing points. The optimum number of earth connections depends on the local conditions and should be specified using available drawings.

VALUE BASE

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.

LOCAL RESTRICTIONS

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

ECOLOGY, HEALTH AND SAFETY

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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.

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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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