

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:

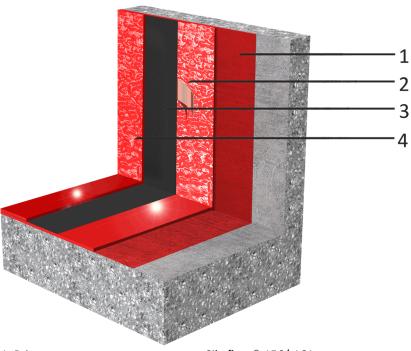
- Crack-bridging and chemically resistant epoxy coating for vertical concrete surfaces and screed surfaces in bund areas for the protection against water contaminating liquids (contact Sika technical service for specific information)
- Electrostatically conductive epoxy coating for vertical surfaces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

CHARACTERISTICS / ADVANTAGES

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

SYSTEM INFORMATION

System Structure



The state of the s	
1. Primer	Sikafloor®-156/-161
2. Conductive undercoat + Earthing	Sikafloor®-390 ECF filled with 2.5 -
connection	4.0 % Extender T + Sika® Earthing
	Kit
3. Conductive primer	Sikafloor®-220 W Conductive
4. Final conductive coating	Sikafloor®-390 ECF filled with 2.5 -
	4.0 % Extender T

The system configurations as described must be fully complied with and may not be changed.

Chemical base	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 possible 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	$R_g < 10^9 \Omega$	(IEC 61340-4-1)
	Typical average resistance to ground ²	$R_g < 10^6 \Omega$	(DIN EN 1081)
	 In accordance with IEC 61340-5-1 an Readings may vary, depending on an equipment. 	d ANSI/ESD S20.20. nbient conditions (i.e. temperature, hur	midity) and measurement

System Data Sheet Sikafloor® MultiDur ET-39 ECF/V February 2017, Version 01.02 02081190000000036



APPLICATION INFORMATION

Consumption	Coating	Product	Consumption	
	Primer	Sikafloor®-156/-161	1-2 x ~ 0.3 - 0.5 kg/m ²	
	Scratch coat (if re-	Sikafloor®-156/-161	Refer to PDS of Sika-	
	quired)		floor®-156/-161	
	Conductive undercoa	t Sikafloor®-390 ECF filled with 2.5 - 4.0 % Extender T	1 x 1.25 kg/m ²	
	Earthing connection	Sika® Earthing Kit	1 earthing point per approx. 200 -300 m², min. 2 per room.	
	Conductive primer	Sikafloor®-220 W Conductive	1 x 0.08 - 0.10 kg/m ²	
	Final conductive coating	- Sikafloor®-390 ECF filled with 2.5 - 4.0 % Extender T	1 x 1.25 kg/m ²	
	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.			
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		ontent. amex Meter, CM-measurem cording to ASTM (Polyethyl		
Waiting Time / Overcoating	Before applying Sikafloor®-390 ECF on Sikafloor®-156/161 allow:			
	=			
	Substrate temperatu	re Minimum	Maximum	
	Substrate temperature +10 °C	Minimum 24 hours	Maximum 4 days	
	Substrate temperatu +10 °C +20 °C	re Minimum 24 hours 12 hours	Maximum 4 days 2 days	
	Substrate temperature +10 °C	Minimum 24 hours	Maximum 4 days	
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Applied Product Ready for Use	Substrate temperature +10 °C +20 °C +30 °C Before applying Sikafe Substrate temperature +10 °C +20 °C +30 °C Before applying Sikafe Substrate temperature +10 °C +20 °C +30 °C Times are approximations particularly tem Temperature +10 °C Temperature -10 °C To compare the substrate temperature -10 °C -10 °	re Minimum 24 hours 12 hours 8 hours loor®-220 W Conductive on re Minimum 48 hours 24 hours 18 hours loor®-390ECF on Sikafloor® re Minimum 26 hours 17 hours 12 hours te and will be affected by claperature and relative humi not traffic Light traffic	Maximum 4 days 2 days 1 days Sikafloor®-390 ECF allows Maximum 6 days 2 days -220 W Conductive allows Maximum 7 days 5 days 4 days anaging ambient condidity. EC Full cure ~ 14 days	
Applied Product Ready for Use	Substrate temperature +10 °C +20 °C +30 °C Before applying Sikate Substrate temperature +10 °C +20 °C +30 °C Before applying Sikate Substrate temperature +10 °C +20 °C +30 °C Times are approximations particularly tem Temperature +10 °C +20 °C -20 °C	Minimum 24 hours 12 hours 8 hours loor®-220 W Conductive on Minimum 48 hours 24 hours 18 hours loor®-390ECF on Sikafloor® re Minimum 26 hours 17 hours 12 hours te and will be affected by composition of traffic Winimum Light traffic 48 hours 48 hours	Maximum 4 days 2 days 1 days Sikafloor®-390 ECF allow: Maximum 6 days 4 days 2 days -220 W Conductive allow: Maximum 7 days 5 days 4 days nanging ambient condidity. c Full cure ~ 14 days ~ 10 days	

PRODUCT INFORMATION

Packaging	Please refer to individual Product Data Sheet.
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System Data Sheet Sikafloor® MultiDur ET-39 ECF/V February 2017, Version 01.02 02081190000000036

3/5



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:

+23 °C/50%
Metriso 2000 (Warmbier)
or comparable
Tripod electrode acc.
DIN EN 1081

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

Ready applied area	Number of measure-

	ments	
< 10 m ²	6 measurements	
< 100 m ²	10-20 measurements	
<1000 m ²	50 measurements	
<5000 m ²	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

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.

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

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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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System Data Sheet Sikafloor® MultiDur ET-39 ECF/V February 2017, Version 01.02 02081190000000036

