

SYSTEM DATA SHEET

Sikafloor® MultiDur ET-14 ECF

TEXTURED, UNICOLOUR CONDUCTIVE EPOXY ROLLER COAT

PRODUCT DESCRIPTION

Sikafloor® MultiDur ET-14 ECF is a two part, orange peel textured, coloured, electrostatically conductive epoxy flooring system.

USES

Sikafloor® MultiDur ET-14 ECF may only be used by experienced professionals.

It is used as:

- Decorative and protective, electrostatic, conductive, textured system for concrete or cement screeds with normal up to medium heavy wear.
- Suitable as a wearing course in industries, such as automotive, electronics and pharmaceutical manufacturing, storage facilities and warehouses.
- Particularly suitable for areas with sensitive electronic equipment e.g. CNC machinery, computer rooms, aircraft maintenance sheds, battery-charging rooms and areas subjected to high explosion risks etc.

CHARACTERISTICS / ADVANTAGES

- Electrostatic conductive
- Good chemical and mechanical resistance
- Slip resistance
- Easy to clean
- Economical
- Liquid proof
- Total solid

APPROVALS / STANDARDS

- Textured, high-build coloured epoxy resin coating according to EN 1504-2: 2004 and EN 13813, DoP 02 08 01 02 014 0 000010 2017, certified by Factory Production Control Body No. 0921, certificate 2017, and provided with the CE-mark.
- Varnishability test according to VW-standard PV 3.10.7 (paint wetting impairment substances (PWIS)) like silicones, HQM GmbH, Test Report 14-04-14201871-6, April 2014
- Slip resistance acc. DIN 51130, Roxeler Baustoffprüfstelle, Test Report Nr. 020109-15-6, May 2016

SYSTEM INFORMATION

System Structure	Sikafloor® MultiDur ET-14 ECF:			
				3 2 1
	1. Primer + Earthing con	nection	Sikafloor®-156/-	161+ Sika® Earth-
	2. Conductive primer		Sikafloor®-220 W	V Conductive
	3. Final conductive coati	ng	Sikafloor®-262 A	S N Thixo
	The system configuration 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 fibres providing the cond matching. With very brights increased. Under direct colour variation, this has the coating.	ductivity, it is ght colours (s ct sun light tl	s not possible to a such as yellow and here may be some	achieve exact colour d orange), this effect discolouration and
Nominal Thickness	~ 0.6 - max. 0.8 mm			
TECHNICAL INFORMATION				
Shore D Hardness	~ 77	(3 days ,	/+23 °C)	(DIN 53 505)
Abrasion Resistance	~ 100 mg (CS 10/1000/1000)	(7 days	/ +23 °C)	(DIN 53109 Taber Abraser Test)
Compressive Strength	~ 80 N/mm²	(28 days	s / +23 °C)	(EN 196-1)
Tensile Strength	~ 40 N/mm²	(28 days	s / +23 °C)	(EN 196-1)
Reaction to Fire	Efi			(EN 13501-1)
Chemical Resistance	Resistant to many chemicals. Contact Sika technical service for specific information.			
Thermal Resistance	Exposure*		Dry heat	
	Permanent		+50 °C	
	Short-term max. 7 d		+80 °C	
	Short-term moist/wet heat* up to +80 °C where exposure is only occasional (i.e. during steam cleaning etc.) *No simultaneous chemical and mechanical exposure.			
USGBC LEED Rating	Conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings SCAQMD Method 304-91 VOC Content < 100 g/l			
Skid / Slip Resistance	R9			(DIN 51130)

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Resistance to ground ¹	$R_g < 10^9 \Omega$	(IEC 61340-4-1)
Typical average resist-	$R_g < 10^6 \Omega$	(DIN EN 1081)
ance to ground ²		

APPLICATION INFORMATION

Consumption	Coating	Product	Consumption	
	Primer	Sikafloor®-156/-161	1-2 x ~ 0.3 - 0.5 kg/m ²	
	Levelling (if required)	Sikafloor®-156/-161 levelling mortar	Refer to PDS of Sika- floor®-156/-161	
	Earthing connection	Sika® Earthing Kit	1 earthing point per ap prox. 200 -300 m², min 2 per room.	
	Conductive primer	Sikafloor®-220 W Co		
	Final conductive coating Sikafloor®-262 AS N Thixo		1 x 0.75 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 m	ax.		
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 m	ax.		
Substrate Moisture Content				
Waiting Time / Overcoating	Before applying Sikafloor®-220 W Conductive on Sikafloor®-156/161 allow:			
	Substrate temperature	Minimum 24 hours	Maximum 4 days	
	+10°C +20°C	12 hours	4 days 2 days	
	+30°C	8 hours	2 days 1 days	
		Before applying Sikafloor®-262 AS N Thixo on Sikafloor®-220 W Conductive		
	Substrate temperature	e Minimum	Maximum	
	+10°C	26 hours	7 days	
	+20°C	17 hours	5 days	
	+30°C	12 hours	4 days	
	Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.			
Applied Product Ready for Use	Temperature Foo	t traffic Light tr	affic Full cure	
Tipping Trouble Trouble		hours ~ 5 day		
		hours ~ 3 day	· ·	
	+30°C ~ 16	hours ~ 2 day		
	Note: Times are approximate and will be affected by changing ambient conditions			
PRODUCT INFORMATION				
Packaging	Please refer to individu	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.			

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 $^{^{1}\,}$ 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.

MAINTENANCE

To maintain the appearance of the floor after application, Sikafloor®-262 AS N Thixo must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc. using suitable detergents.

CLEANING

Please refer to the Sikafloor® Cleaning Regime.

FURTHER DOCUMENTS

Please refer to:

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

LIMITATIONS

- This system may only be used by experienced professionals.
- 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-14 ECF 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-14 ECF 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-14 ECF system in each area is applied from the same control batch numbers.
- The test person, ambient conditions, measurement equipment, cleanliness of the floor have a substantial influence on the measurement results.
- Please note, that measuring results of the orange peel textured Sikafloor® MultiDur ET-14 ECF 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-14 ECF system stated in the system data sheet (apart from the ones referring to proof statements) were measured under the following conditions:

Ambient conditions:	+23 °C/50%	
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:

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 Information Manual: "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

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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.

SIKA LIMITED Watchmead

Welwyn Garden City Hertfordshire, AL7 1BQ Tel: 01707 394444 Web: www.sika.co.uk Twitter: @SikaLimited







SIKA IRELAND LIMITED
Ballymun Industrial Estate

Ballymun Dublin 11, Ireland Tel: +353 1 862 0709 Web: www.sika.ie Twitter: @SikaIreland

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