

## SYSTEMDATENBLATT

# Sikafloor® MultiDur ET-14 ECF

Textured, unicolour conductive epoxy roller coat

## BESCHREIBUNG

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

## ANWENDUNG

Sikafloor® MultiDur ET-14 ECF ist nur für die Anwendung durch gewerbliche Verarbeiter bestimmt.

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.

## PRODUKTMERKMALE/ VORTEILE

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

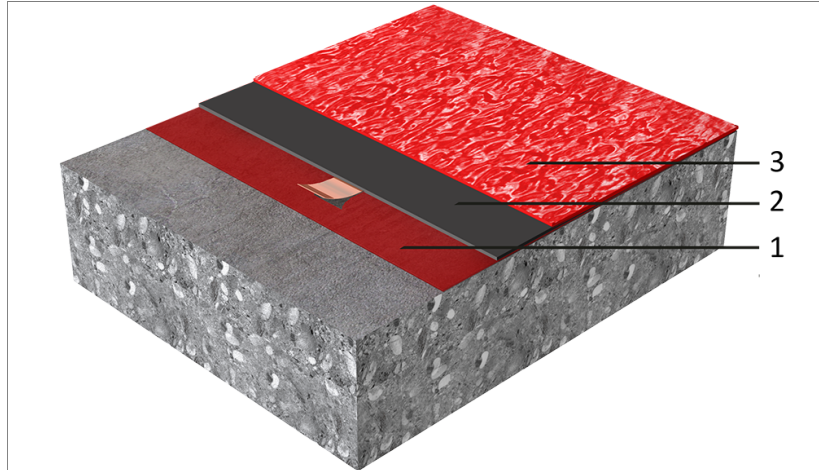
## PRÜFZEUGNISSE

- 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

# SYSTEMINFORMATIONEN

## Systemaufbau

## Sikafloor® MultiDur ET-14 ECF:



1. Primer + Earthing connection	Sikafloor®-156/-160/-161+ Sika® Earthing Kit
2. Conductive primer	Sikafloor®-220 W Conductive
3. Final conductive coating	Sikafloor®-262 AS N Thixo

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

<b>Chemische Basis System</b>	Epoxy
<b>Aussehen System</b>	Orange peel textured, semi-gloss
<b>Farbsystem</b>	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 discolouration and colour variation, this has no influence on the function and performance of the coating.
<b>Nennstärke System</b>	~ 0.6 - max. 0.8 mm

## TECHNISCHE INFORMATIONEN

<b>Shore-Härte (D)</b>	~ 77	(3 days / +23 °C)	(DIN 53 505)
<b>Abriebfestigkeit</b>	~ 100 mg (CS 10/1000/1000)	(7 days / +23 °C)	(DIN 53109 Taber Abraser Test)
<b>Druckfestigkeit</b>	~ 80 N/mm <sup>2</sup>	(28 days / +23 °C)	(EN 196-1)
<b>Reißfestigkeit</b>	~ 40 N/mm <sup>2</sup>	(28 days / +23 °C)	(EN 196-1)
<b>Brandverhalten</b>	E <sub>fl</sub>		(EN 13501-1)
<b>Chemische Beständigkeit</b>	Resistant to many chemicals. Contact Sika technical service for specific information.		
<b>Thermische Beständigkeit</b>	<b>Exposure*</b>	<b>Dry heat</b>	
	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.		

<b>USGBC LEED Bewertung</b>	Conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings SCAQMD Method 304-91 VOC Content < 100 g/l
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## Elektrostatistisches Verhalten

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

<sup>1</sup> In accordance with IEC 61340-5-1 and ANSI/ESD S20.20.

<sup>2</sup> Readings may vary, depending on ambient conditions (i.e. temperature, humidity) and measurement equipment.

## ANWENDUNGSINFORMATIONEN

## Materialverbrauch

Coating	Product	Consumption
Primer	Sikafloor®-156/-160/-161	1-2 x ~ 0.3 - 0.5 kg/m <sup>2</sup>
Levelling (if required)	Sikafloor®-156/-160/-161 levelling mortar	Refer to PDS of Sikafloor®-156/-160/-161
Earthing connection	Sika® Earthing Kit	1 earthing point per approx. 200 -300 m <sup>2</sup> , min. 2 per room.
Conductive primer	Sikafloor®-220 W Conductive	1 x 0.08 - 0.10 kg/m <sup>2</sup>
Final conductive coating	Sikafloor®-262 AS N Thixo	1 x 0.75 kg/m <sup>2</sup>

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.

## Lufttemperatur

+10 °C min. / +30 °C max.

## Relative Luftfeuchtigkeit

80 % r.h. max.

## Taupunkt

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.

## Untergrundtemperatur

+10 °C min. / +30 °C max.

## Untergrundfeuchtigkeit

## Wartezeit zwischen den Arbeitsgängen

Before applying Sikafloor®-220 W Conductive on Sikafloor®-156/160/161 allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	4 days
+20°C	12 hours	2 days
+30°C	8 hours	1 days

Before applying Sikafloor®-262 AS N Thixo on Sikafloor®-220 W Conductive allow:

Substrate temperature	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.

## Wartezeit bis zur Nutzung

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 30 hours	~ 5 days	~ 10 days
+20°C	~ 24 hours	~ 3 days	~ 7 days
+30°C	~ 16 hours	~ 2 days	~ 5 days

Note: Times are approximate and will be affected by changing ambient conditions

## PRODUKTINFORMATIONEN

<b>Lieferform</b>	Please refer to individual Product Data Sheet.
<b>Lagerfähigkeit</b>	Please refer to individual Product Data Sheet.
<b>Lagerbedingungen</b>	Please refer to individual Product Data Sheet.

## UNTERHALT

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.

## WEITERE DOKUMENTE

Please refer to:

- Sika® Method Statement Mixing and Application of Flooring Systems
- Sika® Method Statement Surface Evaluation & Preparation

## WEITERE HINWEISE

- 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 CO<sub>2</sub> and H<sub>2</sub>O 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 the Resistance to Ground:	Metriso 2000 (Warmbier) 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 measurements
< 10 m <sup>2</sup>	6 measurements
< 100 m <sup>2</sup>	10-20 measurements
< 1000 m <sup>2</sup>	50 measurements
< 5000 m <sup>2</sup>	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.

## MESSWERTE

Alle technischen Daten, Maße und Angaben in diesem Datenblatt beruhen auf Labortests. Tatsächlich gemess-

sene Daten können in der Praxis aufgrund von Umständen außerhalb unseres Einflussbereiches abweichen.

## LÄNDERSPEZIFISCHE DATEN

Die Angaben in diesem Produktdatenblatt sind gültig für das von der Sika Deutschland GmbH ausgelieferte Produkt. Bitte beachten Sie, dass Angaben in anderen Ländern davon abweichen können. Beachten Sie das im Ausland gültige Produktdatenblatt.

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Vor der Verarbeitung der Produkte muss der Anwender die dazugehörigen, aktuellen Sicherheitsdatenblätter (SDB) lesen. Das SDB gibt Informationen und Hinweise zur sicheren Handhabung, Lagerung und Entsorgung von chemischen Produkten und enthält physikalische, ökologische, toxikologische sowie weitere sicherheitsrelevante Daten.

## RECHTLICHE HINWEISE

Die vorstehenden Angaben, insbesondere die Vorschläge für Verarbeitung und Verwendung unserer Produkte, beruhen auf unseren Kenntnissen und Erfahrungen im Normalfall, vorausgesetzt die Produkte wurden sachgerecht gelagert und entsprechend der Vorgaben unserer jeweiligen Produktdatenblätter angewandt. Wegen der unterschiedlichen Materialien, Untergründen und abweichenden Arbeitsbedingungen kann eine Gewährleistung eines Arbeitsergebnisses oder eine Haftung, aus welchem Rechtsverhältnis auch immer, weder aus diesen Hinweisen, noch aus einer mündlichen Beratung begründet werden, es sei denn, dass uns insoweit Vorsatz oder grobe Fahrlässigkeit zur Last fällt. Hierbei hat der Anwender nachzuweisen, dass er schriftlich alle Informationen und Kenntnisse, die zur sachgemäßen und erfolgversprechenden Beurteilung durch Sika erforderlich sind, rechtzeitig und vollständig an Sika übermittelt hat. Der Anwender hat die Produkte auf ihre Eignung für den vorgesehenen Anwendungszweck eigenverantwortlich zu prüfen. Änderungen der Produktspezifikationen bleiben vorbehalten. Schutzrechte Dritter sind zu beachten. Im Übrigen gelten unsere jeweiligen Verkaufs-, Liefer- und Zahlungsbedingungen, einzusehen und herunterzuladen unter [www.sika.de](http://www.sika.de). Es gilt das jeweils neueste Produktdatenblatt, das von uns angefordert oder im Internet unter [www.sika.de](http://www.sika.de) heruntergeladen werden kann.

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### SYSTEMDATENBLATT

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