

## SYSTEM DATA SHEET

# Sikafloor® MultiDur ES-14 ECC

SMOOTH UNICOLOUR EPOXY FLOOR COVERING OVER EPOXY HYBRID SCREED

### PRODUCT DESCRIPTION

Sikafloor® MultiDur ES-14 ECC is a smooth, coloured, rigid flooring system based on epoxy resins for industrial floors on damp substrates.

### USES

Sikafloor® MultiDur ES-14 ECC may only be used by experienced professionals.

For industrial floors subject to medium and heavy traffic, such as warehouses, storage areas, car parks and laboratories.

### CHARACTERISTICS / ADVANTAGES

- Good mechanical resistance
- Good chemical resistance
- Medium thermal shock resistance
- Fast and easy application
- Thermal expansion properties similar to concrete
- Excellent bond to green or hardened concrete whether damp or dry
- Excellent early and final mechanical strengths
- Excellent resistance to water and oils
- For internal use
- Contains no solvents
- Will not corrode reinforcement steel

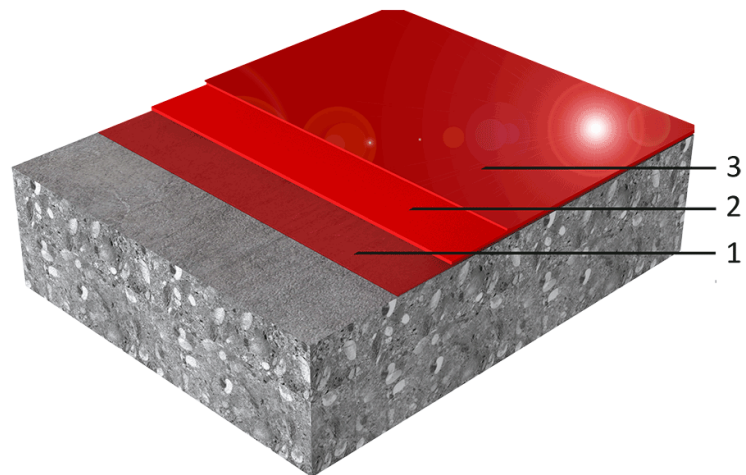
### APPROVALS / STANDARDS

Coating for concrete protection according to EN 1504-2:2004 and provided with the CE-marking

## SYSTEM INFORMATION

### System Structure

Sikafloor® MultiDur ES-14 ECC



Layer	Product
1. Primer	Sikafloor®-155 WN
2. Levelling screed	Sikafloor®-81 EpoCem®
3. Top coat	Sikafloor®-264

<b>Chemical base</b>	Epoxy
<b>Appearance</b>	Smooth gloss finish
<b>Colour</b>	Available in various colour shades
<b>Nominal Thickness</b>	~ 2-4mm

## TECHNICAL INFORMATION

<b>Chemical Resistance</b>	Please refer to the chemical resistance chart of Sikafloor®- 264	
<b>Thermal Resistance</b>	<b>Exposure*</b>	<b>Dry heat</b>
	Permanent	+50 °C
	Short-term max. 7 d	+80 °C
	Short-term max. 12 h	+100 °C
Short-term moist/wet heat* up to +80°C where exposure is only occasional (steam cleaning etc.)		
*No simultaneous chemical and mechanical exposure.		

## APPLICATION INFORMATION

<b>Consumption</b>	Sikafloor® MultiDur ES-14 ECC		
	<b>Coating System</b>	<b>Title 2</b>	<b>Title 2</b>
	1. Primer	1 x Sikafloor®-155 WN	~ 0.3–0.5 kg/m <sup>2</sup> thinned with 10 % water
	2. Levelling screed	1 x Sikafloor®-81 EpoCem®	~2.25 kg/m <sup>2</sup> /mm
3. Top coat	1–2 x Sikafloor®-264	~ 0.6-0.8 kg/m <sup>2</sup>	
<b>Product Temperature</b>	Please refer to the individual Product Data Sheet		
<b>Ambient Air Temperature</b>	+10 °C min. / +30 °C max.		
<b>Relative Air Humidity</b>	80 % r.h. max.		
<b>Dew Point</b>	Beware of condensation! The substrate and uncured floor temperature must be at least 3 °C above the dew point to reduce the risk of condensation or blooming on the floor finish.		

**Substrate Temperature** +10 °C min. / +30 °C max.

**Substrate Moisture Content** Can be applied on green or damp concrete, without any standing water. Although the system can be applied onto green concrete surfaces (> 24 hours), it is advised to allow at least 3 days for early shrinkage of concrete to occur in order to prevent concrete shrinkage cracks from appearing on the screed surface.

**Waiting Time / Overcoating** Before applying Sikafloor®-81 EpoCem® on Sikafloor®-155 WN allow:

<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
+10 °C	12 hours	72 hours
+20 °C	6 hours	48 hours
+30 °C	4 hours	24 hours

Sikafloor®-81 EpoCem® can be overcoated with vapour tight coatings when the surface humidity falls below 4%!

Not earlier than :

<b>Substrate Temperature</b>	<b>Waiting Time</b>
+10°C	2 days
+20°C	1 day
+30°C	1 day

<b>Applied Product Ready for Use</b>	<b>Temperature</b>	<b>Foot Traffic</b>	<b>Light Traffic</b>	<b>Full Cure</b>
	+10 °C	~ 72 hours	~ 6 days	~ 10 days
	+20 °C	~ 24 hours	~ 4 days	~ 7 days
	+30 °C	~ 18 hours	~ 2 days	~ 5 days

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

## PRODUCT INFORMATION

**Packaging** Please refer to the individual Product Data Sheet

**Shelf Life** Please refer to the individual Product Data Sheet

**Storage Conditions** Please refer to the individual Product Data Sheet

## MAINTENANCE

### CLEANING

Refer to Sikafloor®-Cleaning Regime

### FURTHER DOCUMENTS

- Sika® Information Manual Mixing & Applications of Flooring systems
- Sika® Information Manual Evaluation and Preparation of Surfaces for Flooring systems

### LIMITATIONS

- Always ensure good ventilation when using Sikafloor® MultiDur ES-14 ECC in a confined space to remove excess moisture.
- Freshly applied Sikafloor® MultiDur ES-14 ECC must be protected from damp, condensation and water for at least 24 hours.
- Prevent premature drying by protecting from strong wind and do not expose to direct sun light while fresh.
- Applications under extreme conditions (high temperature and low humidity) which can cause fast drying of the products must be avoided as the product does not allow the use of curing compounds.

- Static cracks: Prefill and level with Sikadur® or Sikafloor® epoxy resin.
- Dynamic cracks (> 0.4 mm): To be assessed on site and if necessary apply a stripe coat of elastomeric material or design as a movement joint.
- For exact colour matching, ensure the Sikafloor®-264 in each area is applied from the same control batch numbers.

### 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 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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SikafloorMultiDurES-14ECC\_en\_GB\_(03-2017)\_1\_1.pdf

System Data Sheet  
Sikafloor® MultiDur ES-14 ECC  
March 2017, Version 01.01  
020811900000000006