

## SYSTEM DATA SHEET

# Sikafloor® MultiDur ES-15 ECC

### SMOOTH COLOURED EPOXY FLOOR COATING SYSTEM FOR DAMP SUBSTRATES

#### PRODUCT DESCRIPTION

Sikafloor® MultiDur ES-15 ECC is a 2-part epoxy coloured resin based floor coating system that can provide a hard wearing, seamless, low maintenance smooth gloss finish on damp substrates. For medium - heavy wear conditions. Thickness 2.0–4.0 mm. Internal use.

#### USES

Sikafloor® MultiDur ES-15 ECC may only be used by experienced professionals.

- On concrete and cementitious screeds with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages
- For production, processing areas, warehouses, car park decks.

#### CHARACTERISTICS / ADVANTAGES

- Seamless
- Good chemical and mechanical resistance
- Good wear and abrasion resistance
- Easy application
- Waterproof
- Gloss finish
- Easy cleanability
- Low maintenance
- Good bond to green or hardened damp/dry concrete

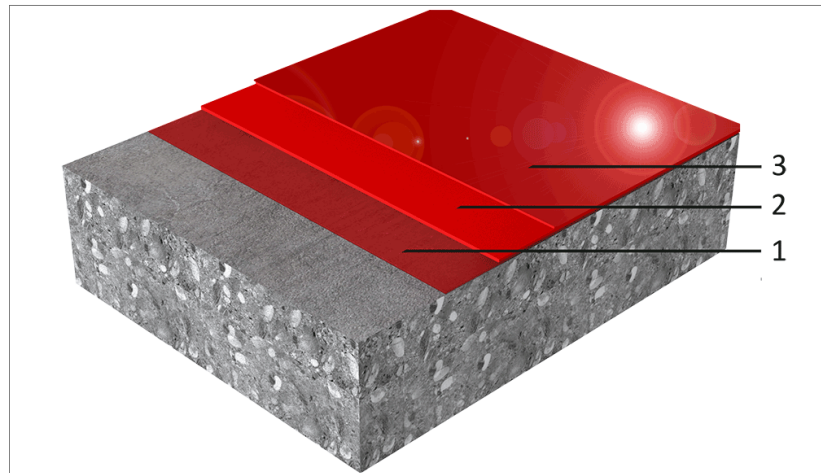
#### APPROVALS / STANDARDS

Refer to individual Product Data Sheet within System Structure

# SYSTEM INFORMATION

## System Structure

### Sikafloor® MultiDur ES-15 ECC (~ 2–4 mm)



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

<b>Composition</b>	Epoxy
<b>Appearance</b>	Smooth gloss finish
<b>Colour</b>	Available in many colours
<b>Nominal Thickness</b>	~ 2.0–4.0mm

## TECHNICAL INFORMATION

<b>Chemical Resistance</b>	Resistant to many chemicals. Contact Sika Technical Service for specific information.	
<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-15 ECC (~ 2–4 mm)		
	<b>Coating System</b>	<b>Product</b>	<b>Consumption</b>
	1. Primer	1 × Sikafloor®-155 WN	~ 0.3–0.5 kg/m <sup>2</sup> thinned with 10 % water
	2. Levelling screed	1 × Sikafloor®-81 EpoCem®	~ 2.25 kg/m <sup>2</sup> /mm
	3. Top coat	1–2 × Sikafloor®-264 N	~ 0.6–0.8 kg/m <sup>2</sup>
<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.

<b>Substrate Temperature</b>	+10 °C min. / +30 °C max			
<b>Substrate Moisture Content</b>	Can be applied on green or damp concrete with no 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 concrete shrinkage to occur in order to prevent shrinkage cracks from appearing on the wearing surface.			
<b>Waiting Time / Overcoating</b>	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 impermeable 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
	Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity			

## PRODUCT INFORMATION

<b>Packaging</b>	Refer to the individual Product Data Sheet
<b>Shelf Life</b>	Refer to the individual Product Data Sheet
<b>Storage Conditions</b>	Refer to the individual Product Data Sheet

## MAINTENANCE

### CLEANING

Refer to the Information Manual Sikafloor®-Cleaning Regime

### FURTHER DOCUMENTS

Sika® Information Manual Mixing and Applications of Flooring systems

Sika® Information Manual Evaluation and Preparation of Surfaces for Flooring systems

## LIMITATIONS

- Sikafloor®-155 WN and Sikafloor®-81 Epo-Cem®: Refer to individual product limitations.
- Freshly applied Sikafloor® MultiDur ES-15 ECC must be protected from damp, condensation and water for at least 24 hours.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor®-264 N in each area is applied from the same control batch numbers.
- Prevent premature drying by protecting from strong winds and do not expose to direct sunlight while

fresh.

- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to indentations 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.

## 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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