

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

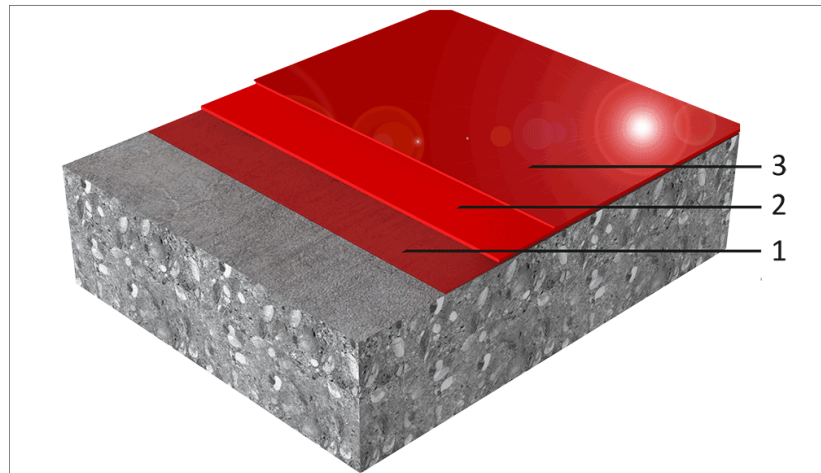
APPROVALS / STANDARDS

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

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

TECHNICAL INFORMATION

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 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

Consumption	Sikafloor® MultiDur ES-15 ECC (~ 2–4 mm)		
	Coating System	Product	Consumption
	1. Primer	1 × Sikafloor®-155 WN	~ 0.3–0.5 kg/m ² thinned with 10 % water
	2. Levelling screed	1 × Sikafloor®-81 EpoCem®	~ 2.25 kg/m ² /mm
	3. Top coat	1–2 × Sikafloor®-264 N	~ 0.6–0.8 kg/m ²
Ambient Air Temperature	10 °C min. / +30 °C max.		
Relative Air Humidity	80 % r.h. max.		
Dew Point	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 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.			
Waiting Time / Overcoating	Before applying Sikafloor®-81 EpoCem® on Sikafloor®-155 WN allow:			
	Substrate temperature	Minimum	Maximum	
	+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 :			
	Substrate Temperature	Waiting Time		
	+10 °C	2 days		
	+20 °C	1 day		
	+30 °C	1 day		
Applied Product Ready for Use	Temperature	Foot Traffic	Light Traffic	Full Cure
	+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

Packaging	Refer to the individual Product Data Sheet
Shelf Life	Refer to the individual Product Data Sheet
Storage Conditions	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 CO₂ and H₂O 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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