

SYSTEM DATA SHEET

Sikafloor® MultiDur EB-12 ECC

Slip resistant broadcast coloured epoxy floor coating system for damp substrates

DESCRIPTION

Sikafloor® MultiDur EB-12 ECC is a 2-part epoxy coloured resin based floor coating system that can provide a hard wearing, seamless, low maintenance, slip resistant gloss finish when broadcast with different aggregate grades on damp substrates. For medium - heavy wear conditions. Thickness 2,0–4,0 mm. Internal use.

USES

Sikafloor® MultiDur EB-12 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 and loading ramps.
- On multi-storey and underground car park decks and for wet process areas, e.g. beverage and food industry

CHARACTERISTICS / ADVANTAGES

- Seamless
- Good chemical and mechanical 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 EB-12 ECC (~ 2–4 mm)	
	Layer	Product
	1. Primer	Sikafloor®-155 WN
	2. Levelling screed & sand broadcast	Sikafloor®-81 EpoCem®, quartz sand 0,3–0,8 mm to excess
	3. Seal / Top coat	Sikafloor®-264 ZA
Composition	Epoxy	
Appearance	Slip resistant gloss finish	
Colour	RAL 1001, 6021, 7030, 7032, 7035, 7037, 7038, 7040, 7042, 9002 Other colours on request.	
Nominal thickness	~ 2,0–4,0 mm	

TECHNICAL INFORMATION

Abrasion Resistance	~35 mg (CS 10/1000/1000) (8 days / +23 °C) (DIN 53 109 (Taber Abraser Test))	
Compressive Strength	60 N/mm² (28 days at 23 °C / 50 % R.H.)	(EN 13892-2)
Tensile Strength	14 N/mm² (28 days at 23 °C / 50 % R.H.)	(EN 13892-2)
Tensile Adhesion Strength	> 1,5 N/mm² (failure in concrete)	(ISO 4624)
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Service for specific information.	
Coefficient of Friction	μ = 0,54	(DIN 51131)
Skid / Slip Resistance	R11 V4	(DIN 51130)

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	1.Primer	1 × Sikafloor®-155 WN	~ 0,3–0,5 kg/m² thinned with 10 % water
	2.Levelling screed	Sikafloor®-81 EpoCem®	~2,25 kg/m²/mm
	3.Sand Broadcast	Quartz Sand 0.3-0.8 mm to excess	~ 4–6 kg/m²
	4.Seal / Top coat	1–2 × Sikafloor®-264 ZA	~ 0,6–0,8 kg/m²
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

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

BASIS OF PRODUCT DATA

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.

FURTHER DOCUMENTS

- Sika® Method Statement Mixing & Applications of Flooring systems
- Sika® Method Statement 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 EB-12 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 ZA in each area is applied from the same control batch numbers.
- 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.

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.

MAINTENANCE

CLEANING

Refer to the Method Statement Sikafloor®-Cleaning Regime

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.

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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System Data Sheet

Sikafloor® MultiDur EB-12 ECC
September 2026, Version 01.01
020811900000000079

SikafloorMultiDurEB-12ECC-en-ZA-(09-2026)-1-1.pdf