BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® MultiDur EB-27 ECC

SLIP RESISTANT BROADCAST COLOURED EPOXY FLOOR SYSTEM FOR DAMP SUB-STRATES.

SIKA NZ APPROVED CONTRACTOR ONLY

DESCRIPTION

Sikafloor® MultiDur EB-27 ECC is a 2-part epoxy coloured resin based flooring system that can provide a hard wearing, seamless, low maintenance, slip resistant finish when broadcast with different aggregate grades. For damp substrates and medium - heavy wear conditions. Thickness 4,0–6,0 mm. Internal use

USES

Sikafloor® MultiDur EB-27 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
- High wear resistance
- Good chemical and mechanical resistance
- Easy application
- Waterproof
- Gloss finish
- Slip resistant
- Low maintenance
- Good bond to green or hardened damp/dry concrete

APPROVALS / STANDARDS

Refer to individual Product Data Sheet within System Structure

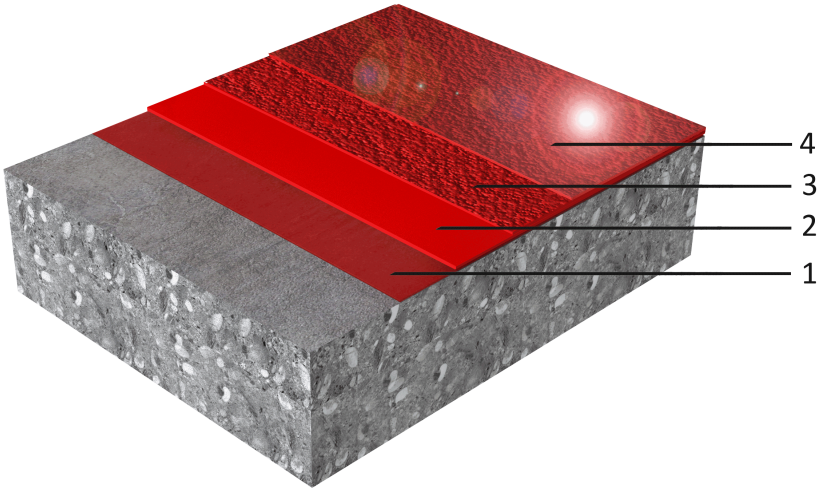
PRODUCT INFORMATION

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

SYSTEM INFORMATION

System Structure

Sikafloor® MultiDur EB-27 ECC (~ 4–6 mm)



Layer	Product
1. Primer	Sikafloor®-155 WN
2. Levelling screed	Sikafloor®-81 EpoCem®
3. Wearing finish	Sikafloor®-263 SL N + aggregate broadcast quartz sand 0.3–0.8 mm or Sika® Aggregate-501
4. Seal / Top coat	Sikafloor®-264 N

Composition	Epoxy
Appearance	Slip resistant gloss finish
Colour	Available in many colours
Nominal Thickness	~ 4–6 mm

TECHNICAL INFORMATION

Abrasion Resistance	~41 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

Sikafloor® MultiDur EB-27 ECC (~ 4 – 6mm)

Layer	Product	Consumption
1. Primer	1 × Sikafloor®-155 WN	~0.3–0.5 kg/m² thinned with 10 % water
2.Levelling screed	1 × Sikafloor®-81 Epo-Cem®	~2.25 kg/m²/mm
3. Wearing layer	1 × Sikafloor®-263 SL N filled 1:1 with quartz sand 0.1–0.3mm & Quartz Sand 0.3–0.8 mm or Sika® Aggregate-508	~ 4 kg /m² (2 kg/m² resin + 2 kg/m² quartz sand) for 2 mm film thickness
4.Sand broadcast	Quartz Sand 0.3–0.8 mm or Sika® Aggregate-501	~ 4–6 kg/m²
5. Seal / Top coat	1–2 × Sikafloor®-264 N	~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

Before applying Sikafloor®-264 N on Sikafloor®-263 SL N allow:

Substrate Temperature	Minimum	Maximum
+10 °C	30 hours	72 hours
+20 °C	24 hours	48 hours
+30 °C	16 hours	24 hours

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity

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

MAINTENANCE

CLEANING

Refer to the Method Statement Sikafloor®-Cleaning Regime

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-27 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.
- 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_2 and H_2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

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.

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

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