BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® MultiDur EB-14 ECC

Broadcast unicolour epoxy floor covering over epoxy hybrid screed

DESCRIPTION

Sikafloor® MultiDur EB-14 ECC is an epoxy antislip system for industrial floors on damp substrates.

USES

Sikafloor® MultiDur EB-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

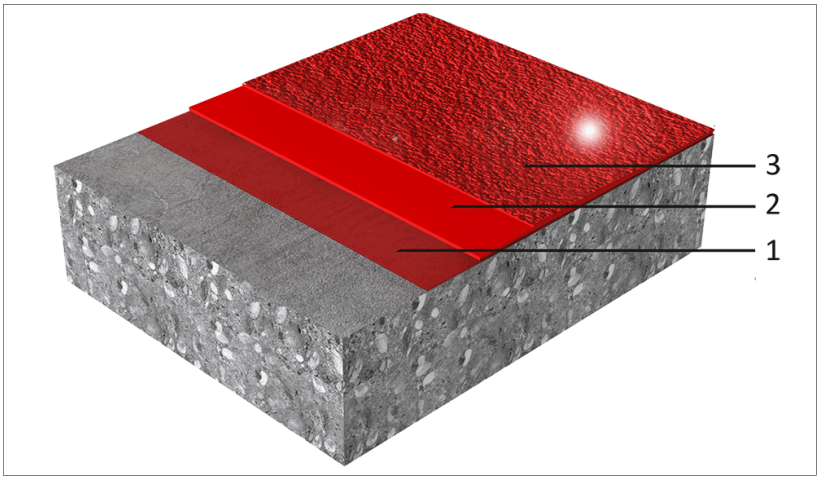
- High wear resistance
- Good mechanical resistance
- Good chemical resistance
- Medium thermal shock resistance
- Slip resistant
- Fast and easy application
- Thermal expansion properties similar to concrete
- Excellent bond to green or hardened concrete whether damp or dry
- Excellent early and final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

CERTIFICATES AND TEST REPORTS

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Hydrophobic Impregnation
- Certified as part of the Surface Protection System OS 8 according to DIN V 18026 (Rili-DAfStb)

SYSTEM INFORMATION

System Structure



1. Primer	Sikafloor®-80 EpoCem® Primer
2. Levelling screed + broadcast in excess	Sikafloor®-81 EpoCem® New HC + broadcast quartz sand, 0.3-0.9 mm (Sikadur® 501)
3. Top coat	Sikafloor®-264 HC N

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	~ 2-4mm

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	Refer to chemical resistance of Sikafloor®-264	
Coefficient of Friction	µ = 0.54	(DIN 51131)
Skid / Slip Resistance	R11 V4	(DIN 51130)

APPLICATION INFORMATION

Consumption

Coating System	Product	Consumption
1. Primer	2 x Sikafloor®-80 EpoCem® Primer	~ 0.3–0.5 kg/m²
2.Levelling screed	Sikafloor®-81 EpoCem® New HC	~2.25 kg/m²/mm ~4.5 kg/ m² for a 2 mm thick application (minimum for T.M.B)
Broadcasting in excess	Quartz Sand 0.3-0.9 mm (Sikadur® 501)	~ 4–6 kg/m²
Top coat	1–2 x Sikafloor®-264 HC N	~ 0.6-0.8 kg/m²

Product Temperature	Please refer to the individual Product Data Sheet

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, 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®-80 EpoCem® Primer on Sikafloor®-80 EpoCem® Primer allow:

Substrate Temperature	Minimum	Maximum
+20 °C	3 hours	16 hours
+30 °C	2 hours	5 hours

Before applying Sikafloor®-81 EpoCem® New HC on Sikafloor®-80 EpoCem® Primer allow:

Substrate Temperature	Minimum	Maximum
+20 °C	3 hours	36 hours
+30 °C	2 hours	24 hours

Sikafloor®-81 EpoCem® New HC can be overcoated with vapour tight coatings when the surface humidity falls below 4 %!
Not earlier than :

Substrate Temperature	Waiting Time
+20 °C	1 day
+30 °C	1 day

Applied Product Ready for Use

Temperature	Foot Traffic	Light Traffic	Full Cure
+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 INFORMATION

- Sika® Method Statement Mixing & Applications of Flooring systems
- Sika® Method Statement Evaluation and Preparation of Surfaces for Flooring systems

IMPORTANT CONSIDERATIONS

- Always ensure good ventilation when using Sikafloor® MultiDur EB-14 ECC in a confined space to remove excess moisture.
- Freshly applied Sikafloor® MultiDur EB-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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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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