SYSTEM DATA SHEET

Sikafloor® MultiDur ET-14 ECC

TEXTURED UNICOLOUR EPOXY FLOOR COVERING OVER EPOXY HYBRID SCREED

CE

DESCRIPTION

Sikafloor® MultiDur ET-14 ECC is a coloured rigid epoxy floor covering with textured properties based on epoxy resins for industrial floors on damp substrates.

USES

Sikafloor® MultiDur ET-14 ECC may only be used by experienced professionals.

- For concrete and cement screeds with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages and loading ramps.
- For multi-storey and underground car parks, maintenance hangars and for wet process areas, e.g. beverage and food industry.
- For areas where slip resistance and easy cleanability is required

CHARACTERISTICS / ADVANTAGES

- Good mechanical resistance
- Good chemical resistance
- Medium thermal shock resistance
- 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
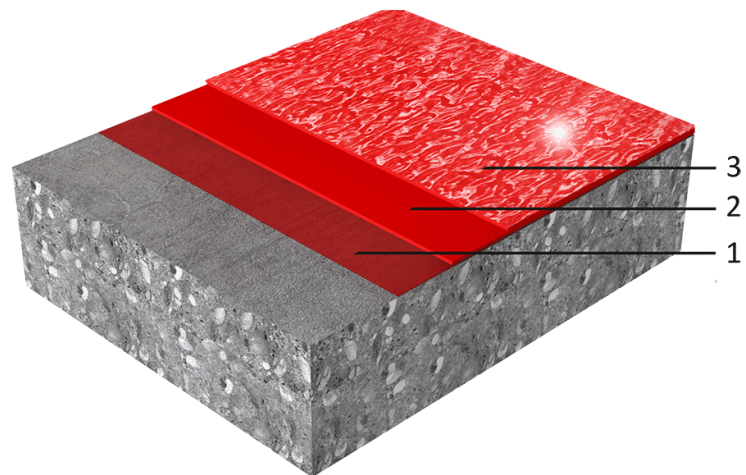- Will not corrode reinforcement steel

APPROVALS / CERTIFICATES

- Cleanability "Excellent" (VDMA "Riboflavin test for low germ or sterile process technologies" tested).
- Slip resistance class R9 in accordance with DIN 51130 and BGR 181.
- Conforms to the requirements of EN 13813 and EN 1504-2

SYSTEMS

System Structure   **Sikafloor® MultiDur ET-14 ECC**

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

Chemical base	Epoxy
Appearance	Textured, gloss finish
Colour	Almost unlimited choice of colour shades.
Nominal Thickness	~2–4mm

TECHNICAL INFORMATION

Shore D Hardness	~76 (7 days / +23 °C)	(DIN 53 505)
Tensile Adhesion Strength	> 1.5 N/mm² (failure in concrete)	(ISO 4624)
Chemical Resistance	Please refer to the chemical resistance of Sikafloor®- 264 Thixo	

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.

Skid / Slip Resistance	R9	(DIN 51130)

APPLICATION INFORMATION

Consumption

Sikafloor® MultiDur ET-14 ECC

Coating System	Product	Consumption
1. Primer	1 × Sikafloor®-155 WN	~0.3–0.5 kg/m² thinned with 10 % water
2.Levelling screed	1 × Sikafloor®-81 EpoCem®	~2.25 kg/m²/mm
3.Top coat	1–2 x Sikafloor®-264 Thixo	~0.5–0.8 kg/m² per layer

Product Temperature	Please refer to the individual Product Data Sheet
Ambient Air Temperature	+10 °C min. / +30 °C max.

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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®-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 tight 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

PRODUCT INFORMATION

Packaging	Please refer to the individual Product Data Sheet
Shelf life	Please refer to the individual Product Data Sheet
Storage conditions	Please refer to the individual Product Data Sheet

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

▪ Always ensure good ventilation when using Sikafloor® MultiDur ET-14 ECC in a confined space to remove excess moisture.
▪ Freshly applied Sikafloor® MultiDur ET-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
▪ For exact colour matching, ensure the Sikafloor®-264 Thixo 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 imprints 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.

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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.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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