

SYSTEM DATA SHEET

Sikafloor® MultiDur WS-10 ECC

Smooth coloured water based epoxy floor coating system for damp substrates

SIKA NZ
APPROVED
CONTRACTOR
ONLY

DESCRIPTION

Sikafloor® MultiDur WS-10 ECC is a 2-part, water based epoxy coloured resin floor coating system that can provide a hard wearing, seamless, low maintenance, slip resistant semi-gloss finish on damp substrates. For normal up to heavy wear conditions. Thickness 2,0–4,0 mm. Internal use.

USES

Sikafloor® MultiDur WS-10 ECC may only be used by experienced professionals.

- As a temporary moisture barrier (TMB) on cementitious substrates
- On concrete and cementitious screeds for 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
- Temporary moisture barrier
- Easy application
- Water vapour permeable
- Water thinnable
- Odourless
- Easy cleanability
- Low maintenance
- Good bond to green or hardened damp/dry concrete

ENVIRONMENTAL INFORMATION

Refer to individual Product Data Sheet within System Structure

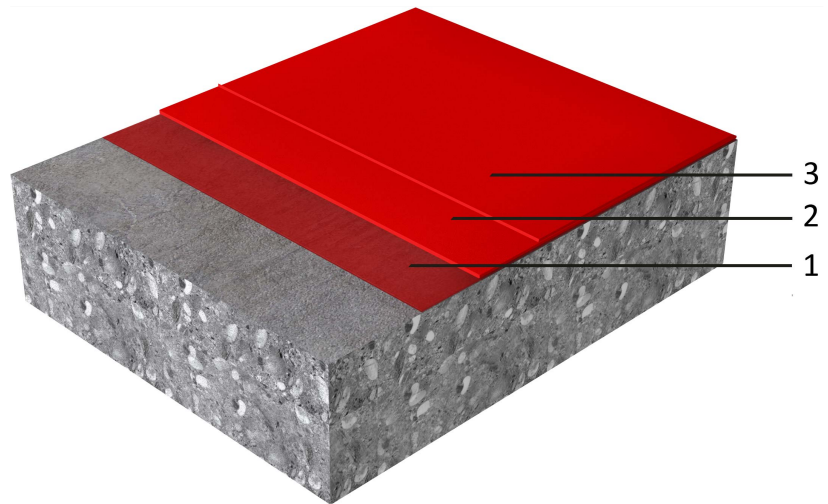
APPROVALS / STANDARDS

Refer to individual Product Data Sheet within System Structure

SYSTEM INFORMATION

System Structure

Sikafloor® MultiDur WS-10 ECC



Layer	Product
1. Primer	Sikafloor®-80 EpoCem® Primer
2. Levelling screed	Sikafloor®-81 EpoCem®
3. Top coat	Sikafloor®-2540 W

Composition	Epoxy modified cementitious mortar
Appearance	Slip resistant, semi-gloss finish
Colour	Available in range of pastel colours
Nominal thickness	~2–4 mm

TECHNICAL INFORMATION

Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for specific information	
Skid / Slip Resistance	R9	(DIN 51130)

APPLICATION INFORMATION

Consumption	Coating System	Product	Consumption
	1. Primer	1x Sikafloor®-80 EpoCem® EpoCem Primer	~0,25–0,4 kg/m ²
	2. Levelling screed	Sikafloor®-81 EpoCem®	~2,25 kg/m ² /mm
	3. Top coat	2 x Sikafloor®-2540 W	~0,2–0,3 kg/m ² per layer

Ambient Air Temperature	+10 °C min. / +30 °C max.
Relative Air Humidity	75 % r.h. maximum. Adequate fresh air ventilation must be provided to remove excess moisture during curing.
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3 °C above 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®-80 EpoCem® Primer allow:

Substrate temperature	Minimum	Maximum
+10 °C	12 hours	24 hours
+20 °C	6 hours	12 hours
+30 °C	4 hours	6 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®-2540 W on Sikafloor®-2540 W allow:

Substrate temperature	Minimum	Maximum
+10 °C	48 hours	7 days
+20 °C	20 hours	6 days
+30 °C	10 hours	3 days

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

If relative air humidity is $\geq 75\%$ the waiting time is increased by at least 24 hours.

Applied Product Ready for Use

Temperature	Foot traffic	Light traffic	Full cure
+10 °C	~ 48 hours	~ 5 days	~ 10 days
+20 °C	~ 20 hours	~ 3 days	~ 7 days
+30 °C	~ 10 hours	~ 2 days	~ 5 days

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®-81 EpoCem® Primer and Sikafloor®-81 Epo-Cem®: Refer to individual product limitations.
- Freshly applied Sikafloor® MultiDur WS-10 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.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

- 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.
- For exact colour matching, ensure the Sikafloor®-2540 W in each area is applied from the same control batch numbers.
- When used as a temporary moisture barrier (TMB), application should be a minimum of 2,0 mm thickness

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

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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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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