

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-05 ECC MY

SELF-SMOOTHENING FLOORING SYSTEM OVER EPOXY HYBRID SCREED

DESCRIPTION

Sikafloor® MultiDur ES-05 ECC MY is a 0.5 mm self-smoothing, coloured, rigid flooring system based on epoxy resins on damp substrates.

USES

Sikafloor® MultiDur ES-05 ECC MY may only be used by experienced professionals.

Sikafloor® MultiDur ES-05 ECC MY is used as:

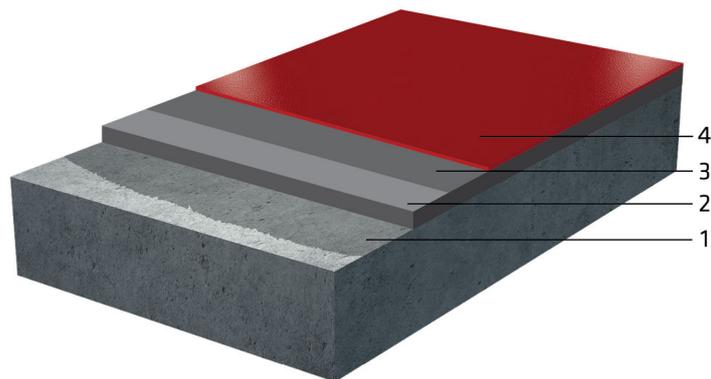
- Self-smoothing topping for concrete and cement screeds with normal upto medium heavy wear e.g. production area, storage and assembly halls, maintenance workshops, garages and loading ramps.

CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Good wear and abrasion resistant
- Excellent bond to green or hardened concrete
- Easy application
- Liquid proof
- Gloss finish
- Easy cleanability
- For internal use

SYSTEM INFORMATION

System Structure



Layer	Product
1. Primer	Sikafloor®-80 EpoCem® Primer
2. Temporary Moisture Barrier (TMB) / Levelling screed	Sikafloor®-81 EpoCem® New HC
3. Sealer coat	Sikafloor®-264 HC N + Sika® Extender T
4. Self-smoothing topping	Sikafloor®-264 HC N

Composition	Epoxy
Appearance	Gloss finish
Colour	Available in RAL shades
Nominal Thickness	1.5–2.5 mm

TECHNICAL INFORMATION

Shore D Hardness	~76 (7 days / +23 °C)	(ASTM D 2240)
Abrasion Resistance	~35 mg (CS-10/1000/1000) (7 days / +23 °C)	(ASTM D 4060)
Compressive Strength	~53 N/mm ² (28 days / +23 °C)	(EN 196-1)
Tensile Strength in Flexure	~20 N/mm ² (28 days / +23 °C)	(EN 196-1)
Tensile Adhesion Strength	> 1.5 N/mm ² (failure in concrete)	(ISO 4624)
Chemical Resistance	Resistant to many chemicals. Contact Sika technical service for specific information.	

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	1. Primer	2 × Sikafloor®-80 EpoCem® Primer	0.30–0.50 kg/m ²
	2. Temporary Moisture Barrier (TMB) / Levelling screed	1 × Sikafloor®-81 EpoCem® New HC	2.25 kg/m ² per mm For TMB, min. thickness 2 mm
	3. Sealer coat	2 × Sikafloor®-264 HC N + 2 % Sika® Extender T	0.08–0.10 kg/m ² per coat
	4. Self-smoothing topping	1 × Sikafloor®-264 HC N	0.70–0.80 kg/m ²

Important Note:

The consumption figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

Ambient Air Temperature	+10 °C min. / +35 °C max.
Relative Air Humidity	80 % r.h. max.
Dew Point	Beware of condensation! The substrate must be at least +3 °C above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or “blushing” on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.
Substrate Temperature	+10 °C min. / +35 °C max.
Substrate Moisture Content	≤ 4 % parts by weight The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).

Pot Life

Refer to the most recent Product Data Sheet of the respective product.

Waiting Time / Overcoating

Before applying Sikafloor®-264 HC N on Sikafloor®-161 HC allow:

Substrate temperature	Minimum	Maximum
+10 °C	24 hours	3 days
+20 °C	12 hours	2 days
+30 °C	8 hours	1 day

Before applying Sikafloor®-264 HC N on Sikafloor®-264 HC N allow:

Substrate temperature	Minimum	Maximum
+10 °C	30 hours	3 days
+20 °C	24 hours	2 days
+30 °C	16 hours	1 day

Notes:

- Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.
- For more information on waiting time to overcoating, refer to the most recent Product Data Sheet of the respective product.

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 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 ES-05 ECC MY in a confined space to remove excess moisture.
- Freshly applied Sikafloor® MultiDur ES-05 ECC MY must be protected from damp, condensation and water for at least 48 hours or until full cure.
- 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.

APPLICATION INSTRUCTIONS**SUBSTRATE QUALITY**

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt apply a test area first.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
- Repairs to the substrate, filling of blowholes / voids and surface levelling can be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.

SUBSTRATE PREPARATION

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying, and/or grinding equipment to remove cement laitance and achieve an open textured surface. High spots must be removed by grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum

MIXING

Sikafloor® products must be thoroughly mixed using a low speed electric stirrer (300–400 rpm) or other suitable equivalent equipment. For the preparation of mortars use a forced action mixer of rotating pan, paddle or trough type. Free fall mixers should not be used.

For more information on mixing, refer to the most recent Product Data Sheet of the respective product.

APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point are within the limits stated in the Product Data Sheet of the respective product.

For more information on application, refer to the most recent Product Data Sheet of the respective product and/or Method Statement of the Product/System, copies of which will be supplied on request.

CLEANING OF TOOLS

Clean all tools and application equipment with suitable solvent immediately after use. Hardened and/or cured material can only be removed mechanically.

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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