BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® MultiDur ET-05 ECC MY

Textured epoxy floor covering over epoxy hybrid screed

DESCRIPTION

Sikafloor® MultiDur ET-05 ECC MY is an improved slip resistant, textured, coloured, rigid flooring system based on epoxy resins on damp substrates.

USES

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

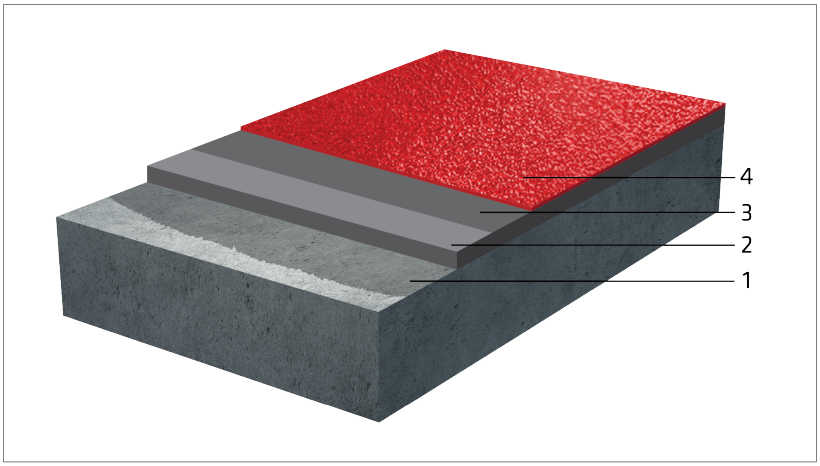
Sikafloor® MultiDur ET-05 ECC MY is used as:
- Textured coating systems for multi-storey and underground car parks, maintenance hangars, and beverage and food industry.

CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Good wear and abrasion resistant
- Excellent bond to green or hardened concrete
- Improved slip resistance
- Easy application
- Liquid proof
- Easy clean ability
- 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. Textured top coat	Sikafloor®-264 HC N + Sika® Extender T + Quartz sand

Composition	Epoxy
Appearance	Antiskid textured finish
Colour	Available in various colour shades. Consult Sika's sales representative.
Nominal Thickness	1.5–2.5 mm

TECHNICAL INFORMATION

Shore D Hardness	~76 (7 days at +23 °C)	(ASTM D 2240)
Abrasion Resistance	~35 mg (CS-10/1000/1000) (7 days at +23 °C)	(ASTM D 4060)
Compressive Strength	~53 N/mm² (28 days at +23 °C, A + B : Quartz sand = 1 : 0.9)	(EN 196-1)
Tensile Strength in Flexure	~20 N/mm² (28 days at +23 °C, A + B : Quartz sand = 1 : 0.9)	(EN 196-1)
Chemical Resistance	Resistant to many chemicals. Contact Sika's sales representaive.	

APPLICATION INFORMATION

Consumption

Layer	Product	Consumption
1. Primer	2 × Sikafloor®-80 EpoCem® Primer	0.25–0.40 kg/m²
2. Temporary moisture barrier (TMB) / Levelling screed	1 × Sikafloor®-81 EpoCem® New HC	2.25 kg/m² per mm **For TMB, min. thickness 2 mm, ~4.5 kg/m²**
3. Sealer coat	2 × Sikafloor®-264 HC N + 2 % Sika® Extender T	0.08–0.10 kg/m² per coat
4. Textured top coat	1 × Sikafloor®-264 HC N + 1.5–3 % Sika® Extender T + 10 % Quartz sand (Sikadur®-501, 0.3–0.9 mm)	0.70–0.90 kg/m²

	These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.
Product Temperature	Refer to Product Data Sheet (PDS) of the respective products
Ambient Air Temperature	+10 °C min. / +30 °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. / +30 °C max.
Substrate Moisture Content	Can be applied on green concrete, without any standing water. Although the system can be applied onto green concrete surfaces, it is advisable to allow at least 7 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 Epo-Cem® Primer allow: **Substrate Temperature** / **Minimum** / **Maximum** +20 °C / 3 hours / 3 days +30 °C / 2 hours / 1 day Sikafloor®-81 EpoCem® New HC must be sealed with vapour tight coatings, Sikafloor®-264 HC N, as soon as its surface humidity falls below 4%! Not earlier than: **Substrate Temperature** / **Waiting Time** +20 °C / 1 day +30 °C / 1 day Before applying Sikafloor®-264 HC N on Sikafloor®-264 HC N allow: **Substrate Temperature** / **Minimum** / **Maximum** +20 °C / 24 hours / 2 days +30 °C / 16 hours / 1 day Note: 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** +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: Evaluation and Preparation of Surfaces for Flooring Systems
- Sika Method Statement: Sikafloor MultiDur ET-05 ECC MY
- Respective Product Data Sheet (PDS)

IMPORTANT CONSIDERATIONS

- Always ensure good ventilation when using Sikafloor® MultiDur ET-05 ECC MY in a confined space to remove excess moisture.
- Freshly applied Sikafloor® MultiDur ET-05 ECC MY 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 products 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.
- For exact colour matching, ensure Sikafloor®-264 HC N in each area is applied from the same control batch numbers.

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, laitance, surface treatments and loose friable material. If in doubt apply a test area.

SUBSTRATE PREPARATION

- Concrete substrates must be prepared mechanically using abrasive blast cleaning and/or grinding (diamond grinding disks) 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 industrial vacuum equipment.

CLEANING OF TOOLS

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

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-264 HC N must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc. using suitable detergents and waxes. Refer to the document "Sikafloor® Cleaning Regime".

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.

Sika Kimia Sdn. Bhd.
Lot 689, Nilai Industrial Estate,
71800 Nilai, Negeri Sembilan D.K.
Malaysia
Phone: +606-7991762
e-mail: info@my.sika.com
Website: www.sika.com.my