BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® MultiDur ET-05 HSR AP

TEXTURED EPOXY FLOOR COVERING WITH HIGH MECHANICAL & SLIP RESISTANCE

DESCRIPTION

Sikafloor® MultiDur ET-05 HSR AP is an improved slip resistant, textured, coloured, rigid flooring system based on epoxy resins with high mechanical resistance.

USES

Sikafloor® MultiDur ET-05 HSR AP may only be used by experienced professionals.

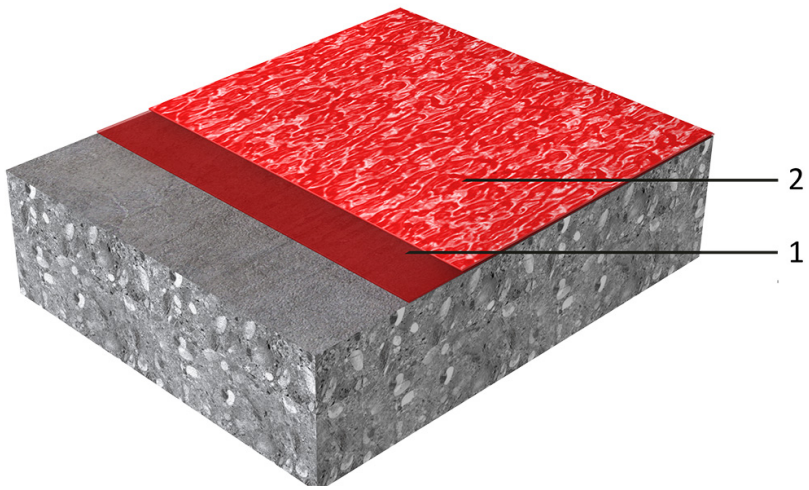
Sikafloor® MultiDur ET-05 HSR AP is used as:
- Textured coating systems, such as multi-storey and underground car parks, maintenance hangars, and beverage and food industry.

CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Good wear & abrasion resistant
- Improved slip resistance
- Easy application
- Liquid proof
- Easy clean ability

SYSTEM INFORMATION

System Structure



Build-up	Product
1. Primer	1 × Sikafloor®-264 HC N
2. Textured coating	1 × Sikafloor®-264 HC N + Sika® Extender T + Quartz sand

Composition	Epoxy
Appearance	Antiskid textured finish
Colour	Available in RAL shades
Nominal Thickness	0.7–1.5 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/mm² (28 days / +23 °C, A + B : Quartz sand = 1 : 0.9)	(EN 196-1)
Tensile Strength in Flexure	~20 N/mm² (28 days / +23 °C, A + B : Quartz sand = 1 : 0.9)	(EN 196-1)
Chemical Resistance	Resistant to many chemicals. Contact Sika technical service for specific information	

APPLICATION INFORMATION

Consumption

Layer	Product	Consumption
Primer	1 × Sikafloor®-264 HC N	0.30–0.50 kg//m²
Textured coating	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

Product Temperature	Please refer to the individual Product Data Sheet
Ambient Air Temperature	+10 °C min. / +35°C max.
Relative Air Humidity	80% 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

Temperature	Time
+10°C	50 minutes
+20°C	25 minutes
+30°C	15 minutes

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

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
+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

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

EQUIPMENT

Sikafloor®-264 HC N, Sika® Extender T & quartz sand must be thoroughly mixed using a low speed electric stirrer (300–400 rpm) or other suitable 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.

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, 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

Primer

1. Prior to mixing all parts, mix separately Part A (resin) using an electric single paddle mixer (300–400 rpm) or other similar equipment. Mix liquid and all the coloured pigment until a uniform colour / mix has been achieved.
2. Add Part B (hardener) to Part A and mix Part A + B continuously for 2–3 minutes until a uniformly coloured mix has been achieved.
3. To ensure thorough mixing pour materials into another clean container and mix again for ~1 minute to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment.
4. During the final mixing stage, scrape down the sides and bottom of the mixing container with a straight edge trowel or spatula at least once to ensure complete mixing. Mix full units only. Total mixing time ~3 minutes.
5. Free fall mixers should not be used.

Note: Part A (resin) and coloured pigment can be mixed a day earlier.

Texture Coating

1. Prior to mixing all parts, mix separately Part A (resin) using an electric single paddle mixer (300–400 rpm) or other similar equipment. Mix liquid and all the coloured pigment until a uniform colour / mix has been achieved. Then add Sika® Extender T and mix for ~1 minute until a uniform mix is achieved.
2. Add Part B (hardener) to Part A and mix Part A + B continuously for ~1 minute, and then add quartz sand and continue mixing for another 1–2 minutes until a uniformly coloured mix has been achieved.

3. To ensure thorough mixing pour materials into another clean container and mix again for ~1 minute to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment.
4. During the final mixing stage, scrape down the sides and bottom of the mixing container with a straight edge trowel or spatula at least once to ensure complete mixing. Mix full units only. Total mixing time ~4 minutes.
5. Free fall mixers should not be used.

Note: Part A (resin) and coloured pigment can be mixed a day earlier.

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. If > 4 % pbw moisture content, Sikafloor® EpoCem® may be applied as a TMB (temporary moisture barrier) system. Contact Sika Technical Service for more information.

Primer
Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. For overcoating time refer to the most recent Product Data Sheet. Apply Sikafloor®-264 HC N by brush, roller or squeegee. Preferred application is by using a squeegee and then back rolling crosswise.

Levelling
Rough surfaces must be levelled using Sikafloor®-161 HC levelling mortar (refer to the most recent Product Data Sheet). For overcoating time of Sikafloor®-161 HC, refer to the most recent Product Data Sheet.

Texture coating
Sikafloor®-264 HC N + Sika® Extender T + quartz sand coating can be laid using a pin rake, notch trowel and back roll (crosswise) with a foam type textured roller. In large areas, change the textured roller when inconsistencies (eg. flat texture) uneven areas and roller marks are observed.

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

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

All spillages must be removed immediately!
To maintain the appearance of the floor after application, regularly clean the floor using methods such as dust mopping, wet mopping, scrubber drying, wet scrubbing and wet vacuuming etc. with suitable detergents and waxes. Refer to the guideline "Cleaning & Maintenance of Sikafloor Systems".

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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