

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-10 AP

SELF-SMOOTHENING FLOORING SYSTEM

DESCRIPTION

Sikafloor® MultiDur ES-10 AP is a 1.0 mm self-smoothing, coloured, rigid flooring system based on epoxy resins

USES

Sikafloor® MultiDur ES-10 AP may only be used by experienced professionals.

Sikafloor® MultiDur ES-10 AP is used as:

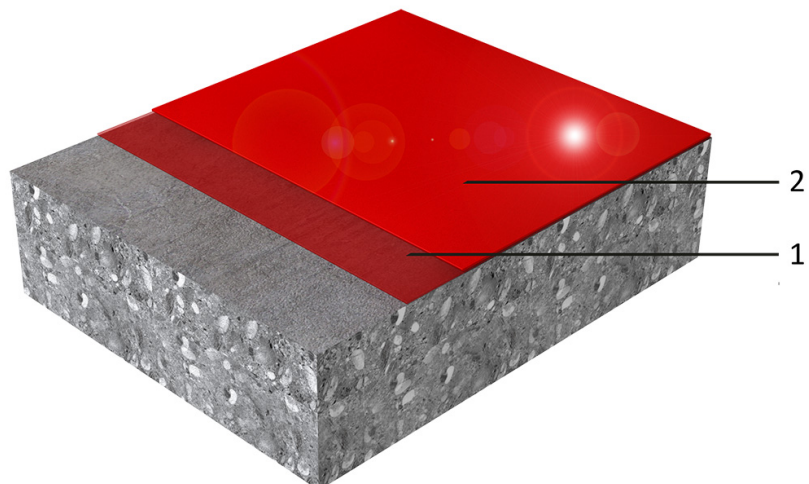
- Self-smoothing topping for concrete and cement screeds with normal up to medium heavy wear e.g. Production area, storage and assembly halls, maintenance workshops, garages and loading ramps

CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Good wear & abrasion resistant
- Easy application
- Liquid proof
- Gloss finish
- Easy clean ability
- Wide range of RAL colour

SYSTEM INFORMATION

System Structure



Layer	Build-up	Product
1	Primer	Sikafloor®-161/161 HC
2	Self-smoothing topping	Sikafloor®-264/264 HC

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Chemical base	Epoxy
Appearance	Gloss finish
Colour	Available in RAL shades
Minimum Thickness	1 mm

TECHNICAL INFORMATION

Shore D Hardness	~ 76 (7 days / +23°C)	(DIN 53505)
Abrasion Resistance	~ 60 mg (CS 10/1000/1000) (8 days / +23°C)	(ASTM D 4060)
Compressive Strength	~ 53 N/mm ² (28 days / +23°C)	(EN196-1)
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	Build-up	Product	Consumption
	Primer	Sikafloor®-161/161 HC	0.35 - 0.50 kg/m ²
	Self-smoothing top-ping	Sikafloor®-264/264 HC	0.90 kg/m ²
	Filler	0.4 pbw quartz filler	0.40 kg/m ²

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. Please consult with Sika representative in case application is at lower temperature (< 15°C)

Product Temperature	Please refer to the individual Product Data Sheet	
Ambient Air Temperature	+8°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	+8°C min. / +35°C max.	
Substrate Moisture Content	Moisture content of concrete substrate must be ≤ 4% by mass (pbw – part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4% mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor 81 EpoCem.	
Pot Life	Temperature	Time
	+10°C	~ 50 minutes
	+20°C	~ 25 minutes
	+30°C	~ 15 minutes

Waiting Time / Overcoating Before applying Sikafloor®-264/264 HC on Sikafloor®-161/161 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®-264/264 HC on Sikafloor®-264/264 HC allow:

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

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

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
Solid content by volume	100%

APPLICATION INSTRUCTIONS

EQUIPMENT

Sikafloor®-264/264 HC 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 or scarifying equipment to remove cement laitance and achieve an open textured surface.

High spots must be removed by e.g. diamond 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

Pre - mix is recommended for component A & colour component one day prior to application. Prior to mixing, stir part A mechanically when all of part B has been added to part A & mix for 1minute, then add quartz filler & mix continuously for 2-3 minutes until a uniform mix has been achieved. De-can whole mixed materials to another container & mix for a further 1 minute to achieve consistent mix & avoid any lumps or unmixed particle in the container. Over mixing must be avoided to minimize air entrainment.

APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point. If > 4 % pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.

Primer

Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor®-161/161 HC by brush, roller or squeegee. Preferred application is by using a squeegee and then back rolling crosswise.

Levelling

Rough surfaces need to be levelled first. Therefore use

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e.g. Sikafloor®-161/161 HC levelling mortar (see PDS).

Self smoothing

Sikafloor®-264/264 HC as self smoothing topping can be applied by pin rack, notch trowel back roll with spikeroller crosswise.

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.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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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