

## SYSTEM DATA SHEET

# Sikafloor® MultiDur EB-40 AP

BROADCAST EPOXY FLOOR COVERING WITH HIGH MECHANICAL & SLIP RESISTANCE

### DESCRIPTION

Sikafloor® MultiDur EB-40 AP is a 4mm slip resistant, coloured, rigid flooring system based on epoxy resins with high mechanical resistance.

### USES

Sikafloor® MultiDur EB-40 AP may only be used by experienced professionals.

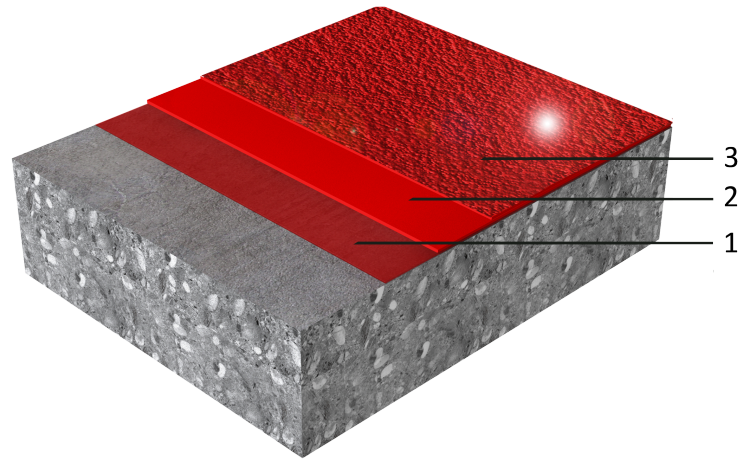
Sikafloor® MultiDur EB-40 AP is used as:

- For concrete and cement screeds with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages and loading ramps.
- For multi-storey and underground car parks and for wet process areas, e.g. beverage and food industry

### CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Good wear resistance
- Good slip resistance
- Easy application
- Liquid proof
- Wide range of RAL colour
- Easy application

### SYSTEM INFORMATION



Layer	System	Product
1	Primer	Sikafloor®-161/161 HC
2	Base /receiver coat + Broadcast	Sikafloor®-264/264 HC + Quartz sand (0.4-0.8mm)
3	Seal coat	Sikafloor®-264/264 HC

<b>Composition</b>	Epoxy
<b>Appearance</b>	Antiskid finish
<b>Colour</b>	Available in RAL shades
<b>Minimum Thickness</b>	4mm

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	76 (7 days / +23°C)	(DIN 53 505)
<b>Abrasion Resistance</b>	41 mg (CS 10/1000/1000) (8 days / +23°C)	(DIN 53 109)
<b>Compressive Strength</b>	53 N/mm <sup>2</sup> (28 days / +23°C)	(EN196-1)
<b>Tensile Strength in Flexure</b>	20 N/mm <sup>2</sup> (28 days / +23°C)	(EN 196-1)

## APPLICATION INFORMATION

Consumption	System	Product	Consumption
	Primer	Sikafloor®-161/161 HC	0.35 - 0.50 kg/m <sup>2</sup>
	Base/receiver coat	Sikafloor®-263 SL HC/264/264 HC	2.0 kg/m <sup>2</sup>
	Quartz filler	Quartz sand (0.1-0.3mm)	2.0 kg/m <sup>2</sup>
	Broad cast	Quartz sand (0.4-0.8mm)	6.0 kg/m <sup>2</sup>
	Seal coat	Sikafloor®-264/264 HC	0.6 - 0.7 kg/m <sup>2</sup>

<b>Product Temperature</b>	Please refer to the individual Product Data Sheet
<b>Ambient Air Temperature</b>	+8 °C min. / +35 °C max.
<b>Relative Air Humidity</b>	80 % r.h. max
<b>Dew Point</b>	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 HC on Sikafloor®-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

<b>Packaging</b>	Please refer to the individual Product Data Sheet
<b>Shelf Life</b>	Please refer to the individual Product Data Sheet
<b>Storage Conditions</b>	Please refer to the individual Product Data Sheet
<b>Solid content by volume</b>	100%

## APPLICATION INSTRUCTIONS

### EQUIPMENT

Sikafloor®-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/mm<sup>2</sup>)

with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.

- 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. Sikafloor®-161/161 HC by trowel & back roll with spike roller.

### Broad cast:

Broad cast quartz sand in excess uniformly on base layer

### Sealcoating

Sikafloor®-264/264 HC topping can be applied by squeegee & back roll with coating roller.

## 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 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 "Cleaning & Maintenance guideline"

## 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 Material Safety Data Sheet 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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