

## PRODUCT DATA SHEET

# Sikafloor®-264 BH

Two-part high-build epoxy coating

### DESCRIPTION

Sikafloor®-264 BH is a two-part, high-build, solvent free, coloured epoxy resin. Sikafloor®-264 BH can be applied to either a smooth or broadcast finish. Suitable for use in hot and tropical climatic conditions.

### USES

Sikafloor®-264 BH may only be used by experienced professionals.

Sikafloor®-264 BH can be used as a:

- Roller coat for concrete and cement screeds with normal up to medium heavy wear for example storage and assembly halls, maintenance workshops, garages and loading ramps.
- A broadcast system for multi-storey and underground car parks, maintenance hangars and for wet process areas, for example beverage and food industry.

### CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Easy application
- Economical
- Liquid proof
- Gloss finish
- High Slip resistant surface when broadcasted

### PRODUCT INFORMATION

<b>Composition</b>	Epoxy	
<b>Packaging</b>	Part A	25 kg containers
	Part B	5 kg containers
	Part A + B	30 kg ready to mix units
<b>Shelf life</b>	18 months from date of production	
<b>Storage conditions</b>	Store in a dry area in original sealed packaging at temperatures between +5 °C and +30 °C. Protect from direct sunlight, heat and moisture.	

<b>Appearance and colour</b>	Part A	Coloured Liquid
	Part B	Transparent Liquid
<p>Available in various colour shades, please request Sika sales representative for colour chart. Under direct sun light there might be some discolouration and colour variation which have no influence on the function and performance of the coating.</p>		
<b>Density</b>	Part A	~1.73 Kg / Lt
	Part B	~1.03 Kg / Lt
	Mixed resin	~1.58 Kg / Lt
All Density values at +23 °C		

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~70 (25 °C)	(DIN 53 505)
<b>Abrasion resistance</b>	≤ 50 mg (CS 10/1000/1000) (28 d / 25 °C)	(ASTM D4060)
<b>Compressive strength</b>	~60 N/mm <sup>2</sup> (28 d / 25 °C)	(ASTM D695)
<b>Tensile adhesion strength</b>	>1.5 N/mm <sup>2</sup> (28 d, or failure in concrete)	(ASTM D4541)

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Part A : Part B = 83.33 : 16.67 (by weight)	
<b>Consumption</b>	~ 0.30 - 0.35 kg/m <sup>2</sup> per coat Min. 2 coats Note: These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.	
<b>Ambient air temperature</b>	+10 °C min. / +35 °C max.	
<b>Relative air humidity</b>	80 % r.h. max.	
<b>Dew point</b>	Beware of condensation! The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish. Note: Low temperatures and high humidity conditions increase the probability of blooming.	
<b>Substrate temperature</b>	+10 °C min. / +35 °C max.	
<b>Substrate moisture content</b>	< 4 % pbw moisture content. Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).	
<b>Pot Life</b>	~50 min (at +25° C)	
<b>Curing time</b>	Foot traffic at +25°C: ~24 hours Full cure at +25°C: ~7 days Note: Curing times are approximate and will be affected by changing ambient conditions	

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- Do not apply Sikafloor®-264 BH on substrates with rising moisture.
- Freshly applied Sikafloor®-264 BH must be protected from damp, condensation and water for at least 24 hours.
- For areas with limited exposure and normally absorbent concrete substrates priming with Sikafloor®-161 BH is not necessary for roller or textured coating systems.
- For roller / textured coatings: Uneven substrates as well as inclusions of dirt cannot and should not be covered by thin sealer coats. Therefore both substrate and adjacent areas must always be prepared and cleaned thoroughly prior to application.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor®-264 BH in each area is applied from the same control batch numbers.
- Under certain conditions, underfloor heating combined with high point loading, may lead to imprints in the resin.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower 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

### SUBSTRATE QUALITY / PRE-TREATMENT

- 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.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

## MIXING

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved. If required, when parts A and B have been mixed, add quartz sand or Extender T and mix for a further 2 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimise air entrainment.

### MIXING TOOL

Sikafloor®-264 BH must be thoroughly mixed using a low speed electric stirrer (300 to 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.

### 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 either Sikafloor®-151, Sikafloor®-161 and/or Sikafloor®-161 BH by brush, roller or squeegee. Preferred application is by using a squeegee and then backrolling crosswise.

#### Levelling:

Rough or unlevelled surfaces need to be levelled first. Use Sikafloor®-161 levelling mortar or Sikafloor® PS (see Product Data Sheet) for minor thickness surface leveling. For higher thickness leveling, use Sikafloor®-190 Screed.

#### Coating:

Sikafloor®-264 BH as coating, can be applied by short-piled roller (crosswise).

#### Seal coat:

Sealer coats can be applied by squeegee and then back-rolled (crosswise) with a short-piled roller.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with Thinner C 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 BH 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. For further details please refer to the Method Statement "Cleaning & Maintenance of Sikafloor® Systems".

### LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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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