

# PRODUCT DATA SHEET

## Sikafloor®-359 BH

### 2-PART PUR TOUGH-ELASTIC COLOURED SEAL COAT

#### DESCRIPTION

Sikafloor®-359 BH is a two part tough-elastic, coloured, UV resistant, non-yellowing, polyurethane seal coat for smooth and broadcasted finishes. Suitable for use in hot and tropical climatic conditions.

#### USES

Sikafloor®-359 BH may only be used by experienced professionals.

- Abrasion resistant seal coat with high mechanical resistance for broadcast systems with crack-bridging properties in industrial flooring
- Particularly suitable for car park decks, ramps and warehouses etc.

#### CHARACTERISTICS / ADVANTAGES

- Tough-elastic
- UV resistant
- Good mechanical and chemical resistance
- Watertight
- Non-yellowing
- Easy application
- Slip resistant surface possible
- Easy to clean and maintain

#### PRODUCT INFORMATION

<b>Composition</b>	Polyurethane
<b>Packaging</b>	Part A: 16.5 kg containers Part B: 3.5 kg containers Part A + B: 20.0 kg ready to mix units
<b>Appearance / Colour</b>	Resin - Part A: Coloured liquid Hardener - Part B: Transparent liquid Check local standard colour range
<b>Shelf life</b>	12 months minimum from date of production if stored properly in original, unopened and undamaged sealed packaging
<b>Storage conditions</b>	Store in dry conditions in original sealed packaging and at temperatures between +5 °C and +35 °C.
<b>Density</b>	Mixed resin: ~1.33 kg/l (25 °C), may vary with colour
<b>Solid content by weight</b>	~75 %
<b>Solid content by volume</b>	~56 %

#### TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~15 (28 d / 23 °C)	(DIN 53 505)
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**Abrasion Resistance** < 90 mg (CS 10 / 1000 / 1000) (7 d / 23 °C) (DIN 53 109)

<b>Temperature Resistance</b>	<u>Exposure*</u>	<u>Dry heat</u>
	Permanent	+50 °C
	Short-term max. 7 d	+80 °C
	Short-term max. 4 h	+100 °C

Short-term moist / wet heat\* up to +80 °C where exposure is only occasional (high pressure water jetting etc.)

\*No simultaneous chemical and mechanical exposure.

## SYSTEMS

**Systems** Suitable as top seal coat for different base coats: Sikafloor®-264, Sikafloor®-264 SG, Sikafloor®-263 SL, Sikafloor®-324, Sikafloor®-3240, etc.. For UV exposed areas the use of Sikafloor®-359 BH as a seal coat is highly recommended.  
For application on inclined / sloping surfaces, addition of Sika® Extender T is recommended.  
For additional information, please contact Sika's Technical Department.

## APPLICATION INFORMATION

**Mixing Ratio** Part A : Part B = 82.5 : 17.5 (by weight)

**Consumption** ~0.30 - 1.0 kg/m<sup>2</sup> depending on system, exposure and area of application. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc..

**Ambient Air Temperature** +10 °C min. / +35 °C max.

**Relative Air Humidity** 80 % r.h. max.

**Dew Point** 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.

**Substrate Temperature** +10 °C min. / +35 °C max.

**Substrate Moisture Content** < 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>	<u>Temperature</u>	<u>Time</u>
	+10 °C	~60 min
	+20 °C	~45 min
	+30 °C	~30 min

**Curing Time** Before applying Sikafloor®-359 BH on basecoats allow waiting time of:

<u>Substrate temperature</u>	<u>Minimum</u>	<u>Maximum</u>
+10 °C	~36 h	~72 h
+20 °C	~24 h	~48 h
+30 °C	~16 h	~36 h

\* On fully broadcasted basecoats no maximum waiting time applies. Make sure the fully broadcasted surface is free of dirt, oil, dust or any other contamination.

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. Refer to PDS of relevant base coat for more information.

## Applied Product Ready for Use

Temperature	Foot Traffic	Light Traffic	Full cure
+10 °C	~48 h	~5 d	~10 d
+20 °C	~24 h	~3 d	~7 d
+30 °C	~16 h	~2 d	~3 d

Note: Times are approximate and will be affected by changing ambient conditions.

## APPLICATION INSTRUCTIONS

### EQUIPMENT

Sikafloor®-359 BH must be thoroughly mixed using a low speed electric stirrer (300 to 400 rpm) or other suitable equipment.

### 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.

If in doubt, apply a test area first.

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 blowholes 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.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.

High spots must be removed by grinding for example. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

For detailed information regarding substrate quality /pre-treatment please refer to the method statement.

### MIXING

Mix full kits only. 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.

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.

### APPLICATION

Prior to application, confirm substrate moisture content, relative humidity and dew point.

Seal coat: Sealer coats can be applied by squeegee and then back-rolled (crosswise) with a short-piled roller. For detailed information regarding application please refer to the method statement.

### CLEANING OF EQUIPMENT

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

### MAINTENANCE

To maintain the appearance of the floor after application, Sikafloor®-359 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.

### 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.

### 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 the exact product data and uses.

### 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.

### SIKA NORTHERN GULF

Bahrain / Qatar / Kuwait  
Tel: +973 177 38188  
sika.gulf@bh.sika.com  
gcc.sika.com

### SIKA SOUTHERN GULF

UAE / Oman / SIC  
Tel: +971 4 439 8200  
info@ae.sika.com  
gcc.sika.com

### SIKA SAUDI ARABIA

Riyadh / Jeddah / Dammam  
Tel: +966 11 217 6532  
info@sa.sika.com  
gcc.sika.com



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All products are supplied  
under a management  
system certified to conform  
to the requirements of the  
quality, environmental and  
occupational health &  
safety standards ISO 9001,  
ISO 14001 and OHSAS  
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Sikafloor-359BH-en-AE-(10-2019)-1-2.pdf

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October 2019, Version 01.02  
020812050030000044