

# PRODUCT DATA SHEET

## Sikafloor®-359 SG

### 2-part PUR Tough-elastic Coloured Seal Coat

#### DESCRIPTION

Sikafloor®-359 SG 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 SG 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

#### APPROVALS / STANDARDS

SRI tested in accordance ASTM E 1980.01 Material Laboratory

#### PRODUCT INFORMATION

<b>Chemical Base</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: ~1.25 kg/l (25 °C), may vary with colour
<b>Solid content by weight</b>	~65 %

## TECHNICAL INFORMATION

Shore D Hardness	52 (7 d / 23 °C)	(DIN 53 505)
Abrasion Resistance	160 mg (CS 10 / 1000 / 1000) (7 d / 23 °C)	(DIN 53 109)
Chemical Resistance	Resistant against many chemicals. Please ask for a detailed chemical resistance table.	
Thermal Resistance	<b>Exposure*</b>	<b>Dry heat</b>
	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.		

## SYSTEM INFORMATION

Systems	<b>UV stable broadcast epoxy coating system:</b>	
	Primer:	Sikafloor®-161
	Broadcasting:	Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm
	Base coat:	Sikafloor®-264 SG
	Seal coat:	Sikafloor®-359 SG
	<b>UV stable Broadcast elastic polyurethane screed:</b>	
	Primer:	Sikafloor®-161 lightly broadcast with quartz sand 0.3 - 0.8 mm
	Broadcasting:	Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm
	Base coat:	Sikafloor®-325 or Sikafloor®-3240
	Seal coat:	Sikafloor®-359 SG
*For exposed areas the use of Sikafloor®-359 SG as a seal coat is mandatory.		
For application on inclined / sloping surfaces: Use the same systems as described with the addition of Sika® Extender T as stated below.		

## APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 78 : 22 (by weight)		
Consumption	<b>UV stable broadcast epoxy coating system:</b>		
	<b>Coating System</b>	<b>Product</b>	<b>Consumption</b>
	Primer	Sikafloor®-161	~0.2 - 0.5 kg/m <sup>2</sup>
	Broadcasting	Broadcast to excess with quartz sand 0.3 - 0.8 mm or / 0.7 - 1.2 mm	~0.6 - 1.0 kg/m <sup>2</sup>
	Base coat	Sikafloor®- 264 SG	~0.3 - 0.5 kg/m <sup>2</sup>
Seal Coat	Sikafloor®-359 SG	~0.2 - 0.35 kg/m <sup>2</sup>	
<b>UV stable Broadcast elastic polyurethane screed:</b>			

Coating System	Product	Consumption
Primer	Sikafloor®-161	~0.2 - 0.5 kg/m <sup>2</sup>
Broadcasting	Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm	~0.6 - 1.2 kg/m <sup>2</sup>
Base coat	Sikafloor®-325 or Sikafloor®-3240	~0.5 - 1.5 kg/m <sup>2</sup>
Seal coat	Sikafloor®-359 SG	~0.25 - 0.5 kg/m <sup>2</sup>

\*For exposed areas the use of Sikafloor®-359 SG as a seal coat is mandatory.

These figures are theoretical and do not allow for any additional material due to application technique, surface porosity, surface profile, variations in level and wastage etc.

<b>Ambient Air Temperature</b>	+10 °C min. / +35 °C max.
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<b>Relative Air Humidity</b>	80 % r.h. max.
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<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.
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<b>Substrate Temperature</b>	+10 °C min. / +35 °C max.
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<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).
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Pot Life	Temperature	Time
	+10 °C	~40 min
+20 °C	~25 min	
+30 °C	~15 min	

<b>Curing Time</b>	Before applying Sikafloor®-359 SG on Sikafloor®-325 or -264 broadcast allow:		
	Substrate temperature	Minimum	Maximum
	+10 °C	36 h	*
	+20 °C	24 h	*
	+30 °C	16 h	*

\* No maximum waiting time if fully broadcast surface is free from all contaminations.

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	~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.

## 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.

## LIMITATIONS

Freshly applied Sikafloor®-359 SG must be protected from damp, condensation and water for at least 24

hours.

Avoid puddles on the surface with the primer.

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.

For exact colour matching, ensure the Sikafloor®-359 SG in each area is applied from the same control batch numbers.

## 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.

## 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.

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 example 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.

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.

### MIXING TOOLS

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

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## 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 TOOLS

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 SG 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.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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