

Product Data Sheet
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Sikafloor®-359 SG

Sikafloor®-359 SG

2-Part PUR Coloured Seal Coat for Smooth and Broadcasted Finishes

Product Description	Sikafloor®-359 SG is a two part, coloured, UV resistant, polyurethane seal coat. Suitable for use under hot climate condition	
Uses	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ UV-resistant ■ Good mechanical and chemical resistance ■ Watertight ■ Good opacity ■ Non-yellowing ■ Easy application ■ Slip resistant surface possible ■ Seamless floor finish ■ Easy to clean and maintain 	
Product Data		
Form		
Appearance / Colours	Resin - part A:	coloured, liquid
	Hardener - part B:	transparent, liquid
	Contact Sika Gulf for standard RAL colour Range	
Packaging	Part A:	16.5 kg containers
	Part B:	3.5 kg containers
	Part A+B:	20 kg ready to mix units
Storage		
Storage Conditions / Shelf-Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +35°C.	



Technical Data

Chemical Base Polyurethane

Density Mixed resin: ~ 1.25 kg/l ± 0.05 (vary with colour)
All Density values at +20°C.

Solid Content ~ 65% (by weight)

Mechanical / Physical Properties

Bond Strength > 1.5 N/mm²

Resistance

Chemical Resistance Resistant to many chemicals. Please ask for a detailed chemical resistance table.

Thermal Resistance

Exposure*	Dry heat
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

System Structure

Smooth Finish:

Coating system for normal exposed surfaces:

Primer: 1 x Sikafloor®-359 SG + 10 - 20 wt.-% Sika Thinner

Seal coat: 1 x Sikafloor®-359 SG

Coating system for heavier exposed surfaces:

Primer: 1 x Sikafloor®-161 / 1 x Sikafloor®-359 SG

Seal coat: 2 x Sikafloor®-359 SG

Broadcast Finish (non-slip):

Sealing of EP/PUR broadcast systems:

Seal coat: 1-2 x Sikafloor®-359 SG

Application Details

Consumption / Dosage

Coating System	Product	Consumption
<u>Smooth Finish:</u>		
Primer	Sikafloor®-359 SG + 10 - 20 wt.-% Sika Thinner	0.15 - 0.25 kg/m ²
	Sikafloor®-161	0.25 - 0.55 kg/m ²
Coating for normal exposure	1 x Sikafloor®-359 SG	0.15 - 0.30 kg/m ²
Coating for heavy exposure	2 x Sikafloor®-359 SG	0.15 - 0.30 kg/m ²
<u>Broadcast Finish:</u>		
Seal coat for EP / PUR broadcast systems	Sikafloor®-359 SG	~ 0.2 – 0.4 kg/m ² per coat
Quartz sand 0.3 - 0.8 mm		
Quartz sand 0.7 - 1.2 mm		

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.

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.

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.

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 e.g. 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.

Application Conditions / Limitations													
Substrate Temperature	+10°C min. / +35°C max. For Substrate temperature greater than 35°C please consult our technical department.												
Ambient Temperature	+10°C min. / +35°C max. For Ambient temperature greater than 35°C please consult our technical department.												
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).												
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.												
Application Instructions													
Mixing	Part A : part B = 82.5 : 17.5 (by weight)												
Mixing Time	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 - 400 rpm) or other suitable equipment.												
Application Method / Tools	Prior to application, confirm substrate moisture content, r.h. and dew point. Seal coat: Sealer coats can be applied by squeegee and then back-rolled (crosswise) with a short-piled roller.												
Cleaning of Tools	Clean all tools and application equipment with Sika Thinner immediately after use. Hardened and/or cured material can only be removed mechanically.												
Potlife	<table border="1"> <thead> <tr> <th>Temperatures</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>~ 40 minutes</td> </tr> <tr> <td>+20°C</td> <td>~ 25 minutes</td> </tr> <tr> <td>+35°C</td> <td>~ 15 minutes</td> </tr> </tbody> </table>	Temperatures	Time	+10°C	~ 40 minutes	+20°C	~ 25 minutes	+35°C	~ 15 minutes				
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Waiting Time / Overcoating	<p>Before applying Sikafloor®-359 SG on EP/PUR broadcast allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>24 hours</td> <td>*</td> </tr> <tr> <td>+20°C</td> <td>15 hours</td> <td>*</td> </tr> <tr> <td>+35°C</td> <td>8 hours</td> <td>*</td> </tr> </tbody> </table> <p>* No max. 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.</p>	Substrate temperature	Minimum	Maximum	+10°C	24 hours	*	+20°C	15 hours	*	+35°C	8 hours	*
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Notes on Application / Limitations	<p>Freshly applied Sikafloor®-359 SG must be protected from damp, condensation and water for at least 24 hours.</p> <p>Sikafloor®-359 SG applied at different thicknesses can lead to different degrees of matt finish.</p> <p>Avoid puddles on the surface with the primer.</p> <p>The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.</p> <p>For exact colour matching, ensure the Sikafloor®-359 SG in each area is applied from the same control batch numbers.</p>												

Curing Details

Applied Product ready for use

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 48 hours	~ 5 days	~ 10 days
+20°C	~ 24hours	~ 3 days	~ 7 days
+35°C	~ 16 hours	~ 2 days	~ 3 days

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

Cleaning / Maintenance

Methods

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.

Value Base

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.

Health and Safety Information

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.



Sika Gulf BSC
 Bldg. 925, Road 115,
 Sitra Area 601.
 P.O. Box 15776
 Adliya, Kingdom of Bahrain

Tel: +973 17 738 188
 Fax: +973 17 732 476
 e-mail: sika.gulf@bh.sika.com
 Web: <http://www.sika.com.bh>

