

PRODUCT DATA SHEET

Sikafloor®-359 AE

2-PART PUR TOUGH-ELASTIC NON-YELLOWING COLOURED SEAL TOP COAT

DESCRIPTION

Sikafloor®-359 AE is a two part thard wearing, coloured, non-yellowing (UV resistant), polyurethane seal coat.

Suitable for use in hot and tropical climatic conditions. Formerly known in UAE market as Sikafloor®-359 BH / -359 SG

USES

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

- UV resistant seal top coat with good mechanical resistance for broadcasted and smooth surfaces in industrial flooring.
- Particularly suitable for car park decks, ramps, warehouses, etc.
- Suitable for application on vertical and sloped surfaces.

CHARACTERISTICS / ADVANTAGES

- Good abrasion and chemical resistance
- Matt finish
- Easy application
- Excellent slip resistance
- Easy to clean and mantain
- UV and Waether resistant and non-yellowing

PRODUCT INFORMATION

Composition	Polyurethane resin
Packaging	Part A: 16.5 kg containers Part B: 3.5 kg containers Part A + B: 20.0 kg ready to mix units
Shelf life	12 months from date of production
Storage conditions	Store in a dry area in original sealed packaging at temperatures between +5 °C and +30 °C. Protect from direct sunlight, heat and moisture.
Appearance and colour	Resin - Part A: Coloured liquid, Hardener - Part B: Transparent liquid Available in wide range of colour shades. Please request local Sika representative for standard colour chart.
Density	Mixed resin: ~1.40 kg/l (+23 °C), may vary with colour
Solid content by mass	~74 %
Solid content by volume	~56 %

TECHNICAL INFORMATION

Shore A hardness	~89 (28 days cured at +23 °C)	(ASTM D2240)
Tensile adhesion strength	> 1.5 N/mm ² (failure in concrete)	(ASTM D4541)
Temperature resistance	Exposure*	Dry heat
	Permanent	+50 °C
	Short-term max. 7 d	+80 °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.	
Chemical resistance	Resistant to many chemicals. Please contact local Sika representative for further information.	
Resistance to UV exposure	Artificial Accelerated Weathering (UV Exposure): Conclusion: Pass - Rating 10 No blistering, no flaking, no chalking. Exposure duration: 500 hours	(ASTM G154)

SYSTEM INFORMATION

Systems	Suitable as top seal coat for different flooring base coats: Sikafloor®-263 SL, Sikafloor®-264, Sikafloor®-264 SG, Sikafloor®-267, Sikafloor®-267 SG, Sikafloor®-324, Sikafloor®-3240, etc.. For UV exposed areas the use of Sikafloor®-359 AE as a seal coat is highly recommended. Suitable for application on vertical and sloping surfaces. For additional information, please contact Sika's Technical Department.	
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APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 82.5 : 17.5 (by weight)	
Consumption	~0.2 – 0.25 kg/m ² /coat depending on system, surface profile (roughness), exposure and area of application. Note: These figures are theoretical and do 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).	
Pot Life	Temperature	Time
	+10 °C	~45 min
	+20 °C	~30 min
	+30 °C	~20 min

Waiting time to overcoating

Before applying Sikafloor®-359 AE on basecoats allow waiting time of:

Substrate temperature	Minimum	Maximum
+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.

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.

FURTHER INFORMATION

- Formerly known in **UAE market** as Sikafloor®-359 BH / -359 SG
- **Substrate Quality & Preparation:** Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".
- **Application Instructions:** Please refer to Sika Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".

IMPORTANT CONSIDERATIONS

- Freshly applied Sikafloor®-359 AE must be protected from damp, condensation and water for at least 24 hours.
- Sikafloor®-359 AE applied at different thicknesses can lead to different degrees of matt finish.
- When applied in exposed areas e.g. on direct sunlight or exposed to high winds, quicker drying may be expected due to fast solvent release, which may lead to reduced working (open) time.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure Sikafloor®-359 AE in each area is applied from the same control batch numbers.

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

EQUIPMENT

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

SUBSTRATE QUALITY / PRE-TREATMENT

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum. Pull off strength shall not be less than 1.5 N/mm². If in doubt apply a test area first.

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. As a seal coat, the product can be applied by roller or squeegee and then back-rolled (crosswise) with a short-piled roller.

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 AE 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

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.

SIKA NORTHERN GULF

Bahrain / Kuwait
Tel: +973 177 38188
info@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



ISO 9001: Sika UAE LLC,
Sika Gulf B.S.C. (C),
Sika Saudi Arabia Limited,
Sika International Chemicals LLC
ISO 14001: Sika UAE LLC,
Sika Gulf B.S.C. (C),
Sika Saudi Arabia Limited,
Sika International Chemicals LLC,
ISO 45001: Sika UAE LLC,
Sika Gulf B.S.C. (C),
Sika International Chemicals LLC.

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 ISO 45001.

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