

PRODUCT DATA SHEET

Sikafloor®-359 N

2-PART PUR TOUGH-ELASTIC COLOURED SEAL COAT

PRODUCT DESCRIPTION

Sikafloor®-359 N is a two part tough-elastic, coloured, non-yellowing, polyurethane seal coat.

USES

Sikafloor®-359 N installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

- 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
- Good mechanical and chemical resistance
- Watertight
- Good opacity
- Non-yellowing
- Matt finish
- Easy application
- Slip resistant surface possible

APPROVALS / STANDARDS

- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance 02080104002500000011008, certified by notified factory production control certification body 0921, and provided with the CE marking.
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 02080104002500000011008, certified by notified factory production control certification body 0921, and provided with the CE marking.
- Certified as part of the Surface Protection System OS 11a according to DIN EN 1504-2 and DIN V 18026.
- Certified as part of the Surface Protection System OS 11b according to DIN EN 1504-2 and DIN V 18026.

PRODUCT INFORMATION

Chemical Base	Polyurethane	
Packaging	Part A	25.35 kg containers
	Part B	7.15 kg containers
	Part A+B	32.5 kg ready to mix units
Appearance / Colour	Resin - part A	coloured, liquid
	Hardener - part B	transparent, liquid
	Almost unlimited choice of colour shades.	
Shelf Life	12 months from date of production	

Storage Conditions

The product must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C.

Density	Part A	~ 1.67 kg/l	(DIN EN ISO 2811-1)
	Part B	~ 1.05 kg/l	
	Mixed resin	~ 1.45 kg/l	
All Density values at +23°C			
Solid content by weight	~85 %		
Solid content by volume	~85 %		

TECHNICAL INFORMATION

Shore D Hardness	~52 (7 days / +23 °C)	(DIN 53 505)
Abrasion Resistance	160 mg (CS 10/1000/1000) (7 days / +23 °C)	(DIN 53 505)
Tensile Adhesion Strength	> 1.5 N/mm ² (failure in concrete)	(EN 13892-8)
Chemical Resistance	Resistant to many chemicals. Contact Sika technical service for specific information.	

SYSTEM INFORMATION

Systems	Please refer to the System Data Sheet of:	
	Sikafloor® MultiFlex PB-21 UV	Broadcast unicolour high performance polyurethane floor covering with UV sealer
	Sikafloor® MultiFlex PB-51 UV	Broadcast unicolour high performance polyurethane floor covering over elastic membrane with UV sealer

APPLICATION INFORMATION

Mixing Ratio	Part A : part B = 78 : 22 (by weight)	
Consumption	~0.7–0.9 kg/m ² /layer. Please refer to the respective System Data Sheet.	
Ambient Air Temperature	+10 °C min. / +30 °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. / +30 °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	~ 40 minutes
	+20 °C	~ 25 minutes
	+30 °C	~ 15 minutes

Curing Time

Before applying Sikafloor®-359 N on Sikafloor®-375/ -350 N/ -161/ -264 broadcast allow:

Substrate temperature	Minimum	Maximum
+10 °C	24 hours	*
+20 °C	12 hours	*
+30 °C	6 hours	*

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

* Not applicable as the product will be applied on the structured surface provided by the quartz sand.

Applied Product Ready for Use

Temperature	Foot traffic	Light traffic	Full cure
+10 °C	~ 48 hours	~ 5 days	~ 10 days
+20 °C	~ 24 hours	~ 3 days	~ 7 days
+30 °C	~ 16 hours	~ 2 days	~ 3 days

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

APPLICATION INSTRUCTIONS

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

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.

For the addition of quartz sand: When parts A and B have been mixed, add the quartz sand 0.1 - 0.3 mm 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 Tools:

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

APPLICATION

Prior to application, confirm substrate moisture content, relative humidity and dew point. As a seal coat, the product 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 Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

FURTHER DOCUMENTS

Substrate Quality & Preparation

Please refer to Sika Information Manual: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

Application Instructions

Please refer to Sika Information Manual: "MIXING & APPLICATION OF FLOORING SYSTEMS".

Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

LIMITATIONS

- Freshly applied Sikafloor®-359 N must be protected from damp, condensation and water for at least 24 hours.
- Sikafloor®-359 N applied at different thicknesses can lead to different degrees of matt finish.
- 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 N in each area is applied from the same control batch numbers.

VALUE BASE

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

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling.

Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type sb) is 500 g/l (Limit 2010) for the ready to use product. The maximum content of Sikafloor®-359 N is < 500 g/l VOC for the ready to use product.

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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