

# 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**

- 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

### Test

**Approval / Standards** 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 Data

#### Form

**Appearance / Colours** Resin - part A: coloured, liquid  
Hardener - part B: transparent, liquid  
Wide range of colour shades available upon request.

**Packaging** Part A: 25.35 kg containers  
Part B: 7.15 kg containers  
Part A+B: 32.5 kg ready to mix units

Construction



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**Storage**

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**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 +30°C.

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**Technical Data**

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**Chemical Base**

Polyurethane

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**Density**

Part A: ~ 1.67 kg/l

Part B: ~ 1.05 kg/l

Mixed resin: ~ 1.45 kg/l

(DIN EN ISO 2811-1)

All Density values at +20°C.

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**Solid Content**

~ 85% (by volume) / ~ 85% (by weight)

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**Mechanical / Physical Properties**

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**Bond Strength**

> 1.5 N/mm<sup>2</sup>

(ISO 4624)

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**Shore D Hardness**

52 (7 days / +23°C)

(DIN 53 505)

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**Abrasion Resistance**

160 mg (CS 10/1000/1000) (7 days / +23°C)

(DIN 53 109 (Taber Abrader Test))

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**Resistance**

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**Chemical Resistance**

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

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**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.

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## System Information

### System Structure

#### Broadcast coloured flexible coating :

Primer:	1-2 x Sikafloor®-156 / -161
Broadcasting:	Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm
Seal coat:	1-2 x Sikafloor®-359 N*

#### Broadcast tough elastic screed:

Primer:	1-2 x Sikafloor®-156 / -161 lightly broadcast with quartz sand (0.3 - 0.8) mm
Base coat:	Sikafloor®-325
Broadcasting:	Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm
Seal coat:	1-2 x Sikafloor®-359 N*

#### Broadcast highly crack-bridging waterproofing screed, base coat spray applied:

Primer:	1-2 x Sikafloor®-156 / -161 lightly broadcast with quartz sand 0.4 - 0.7 mm
Base coat:	Sikafloor®-350 N Elastic
Wearing course:	Sikafloor®-375 (filled with 20% quartz sand 0.1 - 0.3 mm) Broadcast to excess with quartz sand 0.7 - 1.2 mm
Seal coat:	1-2 x Sikafloor®-359 N*

#### Broadcast coloured flexible screed (OS 11b, according to DIN EN 1504-2 and DIN V 18026):

Primer:	1-2 x Sikafloor®-156 / -161 lightly broadcast with quartz sand 0.3 - 0.8 mm
Wearing course:	Sikafloor®-350 N Elastic (filled with 20% quartz sand 0.1 - 0.3 mm) Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm
Seal coat:	1-2 x Sikafloor®-359 N*

#### Broadcast coloured flexible screed (OS 13, according to DIN EN 1504-2 and DIN V 18026):

Primer:	1-2 x Sikafloor®-156 / -161 lightly broadcast with quartz sand 0.4 - 0.7 mm
Wearing course:	Sikafloor®-375 Broadcast to excess with quartz sand 0.4 - 0.7 mm or 0.7 - 1.2 mm
Seal coat:	1-2 x Sikafloor®-359 N*

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

For application on inclined / sloping surfaces:

*Use the same systems as described with the addition of Sika® Thickener T as stated below.*

## Application Details

### Consumption / Dosage

#### Broadcast coloured flexible coating):

Coating System	Product	Consumption
Primer	1-2 x Sikafloor®-156 / -161 Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7-1.2 mm	1-2 x ~0.3 - 0.5 kg/m <sup>2</sup> ~6 - 8 kg/m <sup>2</sup>
Seal coat	Sikafloor® 359 N*	~0.7 - 0.9 kg/m <sup>2</sup>

#### Broadcast tough elastic screed:

Coating System	Product	Consumption
Primer	1-2 x Sikafloor®-156 / -161	1-2 x ~0.3 - 0.5 kg/m <sup>2</sup>
Base coat:	Sikafloor®-325 Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7-1.2 mm	~1.60 kg/m <sup>2</sup> mixture (0.94 kg/m <sup>2</sup> binder + 0.66 kg/m <sup>2</sup> quartz ~6 - 8 kg/m <sup>2</sup>
Seal coat	1-2 x Sikafloor® 359 N*	~0.7 - 0.9 kg/m <sup>2</sup>

#### Broadcast highly crack-bridging coloured screed (OS 11a):

Coating System	Product	Consumption
Primer (lightly blinded)	1-2 x Sikafloor®-156 / -161 Quartz sand 0.3 - 0.8 mm	1-2 x ~0.3 - 0.5 kg/m <sup>2</sup> ~ 0.8 kg/m <sup>2</sup>
Base coat	Sikafloor®-350 Elastic	~ 2.2 kg/m <sup>2</sup>
Wearing course	Sikafloor®-375 filled Broadcast to excess with quartz sand 0.7 - 1.2 mm	~ 1.86 kg/m <sup>2</sup> (1.55 kg/m <sup>2</sup> binder + 0.31 kg/m <sup>2</sup> quartz sand 0.1-0.3 mm) ~6 - 8 kg/m <sup>2</sup>
Seal coat	1-2 x Sikafloor® 359 N*	~0.7 - 0.9 kg/m <sup>2</sup>

#### Broadcast coloured flexible screed (OS 11b):

Coating System	Product	Consumption
Primer (lightly blinded)	1-2 x Sikafloor®-156 / -161 Quartz sand 0.3 - 0.8 mm	1-2 x ~0.3 - 0.5 kg/m <sup>2</sup> ~ 0.8 kg/m <sup>2</sup>
Wearing course	Sikafloor®-350 N Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm	~ 2.40 kg/m <sup>2</sup> (2.00 kg/m <sup>2</sup> binder + 0.40 kg/m <sup>2</sup> quartz sand 0.1-0.3 mm) ~6 - 8 kg/m <sup>2</sup>
Seal coat	1-2 x Sikafloor® 359 N*	~0.7 - 0.9 kg/m <sup>2</sup>

**Broadcast coloured flexible screed (OS 13)**

Coating System	Product	Consumption
Primer (lightly blinded)	1-2 x Sikafloor®-156 / -161 Quartz sand 0.4 - 0.7 mm	1-2 x ~ 0.3 - 0.5 kg/m <sup>2</sup> ~ 0.8 kg/m <sup>2</sup>
Wearing course	Sikafloor®-375  Broadcast to excess with quartz sand 0.4 - 0.7 mm or 0.7 - 1.2 mm	~ 1.8 kg/m <sup>2</sup>  ~ 6 - 8 kg/m <sup>2</sup>
Seal coat	1-2 x Sikafloor® 359 N*	~ 0.7 - 0.9 kg/m <sup>2</sup>

\*For exposed areas the use of Sikafloor®-359 N 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.

**Substrate Quality**

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.

**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. / +30°C max.

**Ambient 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).

**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.

Note: Low temperatures and high humidity conditions increase the probability of blooming.

## Application Instructions

<b>Mixing</b>	Part A : part B = 78 : 22 (by weight)
<b>Mixing Time</b>	<p>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.</p> <p>To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.</p> <p>Over mixing must be avoided to minimise air entrainment.</p>
<b>Mixing Tools</b>	Sikafloor®-359 N must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.
<b>Application Method / Tools</b>	<p>Prior to application, confirm substrate moisture content, r.h. and dew point.</p> <p><i>Seal coat:</i> Sealer coats can be applied by squeegee and then back-rolled (crosswise) with a short-piled roller.</p>
<b>Cleaning of Tools</b>	Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

### Potlife

Temperatures	Time
+10°C	~ 40 minutes
+20°C	~ 25 minutes
+30°C	~ 15 minutes

### Waiting Time / Overcoating

Before applying Sikafloor®-359 N on Sikafloor®-350 N broadcast allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	*
+20°C	15 hours	*
+30°C	8 hours	*

Before applying Sikafloor®-359 N on Sikafloor®-375 broadcast allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	*
+20°C	10 hours	*
+30°C	5 hours	*

Before applying Sikafloor®-359 N on Sikafloor®-325 or -263/264 broadcast allow:

Substrate temperature	Minimum	Maximum
+10°C	36 hours	*
+20°C	24 hours	*
+30°C	16 hours	*

\* 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.

## Notes on Application / 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 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.

### Tools

Recommended Supplier of Tools:

PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, [www.polyplan.com](http://www.polyplan.com).

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

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

## 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
+30°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 N 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.

