

PRODUCT DATA SHEET

Sikafloor®-359 N

2-PART PUR TOUGH-ELASTIC COLOURED SEAL COAT

DESCRIPTION

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

USES

Sikafloor®-359 N 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.
- Good mechanical and chemical resistance
- Non-yellowing.
- Watertight.
- Good opacity.
- Matt finish.
- Easy to apply.
- Slip resistant surface possible.

APPROVALS / CERTIFICATES

- Certified as part of the Surface Protection System OS 11a & 11b according to DIN EN 1504-2 and DIN V18026
- Conforms to the requirements of DIN 51130 for class R12 (Skid / slip resistance), report No. 12 4274-S/06, MPI, Germany, 2006
- Fire classification in accordance with EN 13501-1 for class B(fl)-s1, MPA Dresden, Germany, 2007 .
- Reaction to fire in accordance with DIN EN ISO 9239-1.

PRODUCT INFORMATION

Composition	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 packaging 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	~ 85% (by volume) / ~ 85% (by weight) VOC DATA VOC content (ready to use) > 250 g/l (Type of regulate paint under the Air Pollution Control (Volatile Organic Compounds))	

TECHNICAL INFORMATION

Shore Hardness	~ 52 (7Days / 23°)	(DIN 53 505)
Abrasion Resistance	180 mg (CS 10/1000/1000) (7 days / +23°C)	(DIN 53 109 (Taber Abrader Test))
Tensile Adhesion Strength	> 1.5 N/mm2 (failure in concrete)	(ISO 4624)
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.	
Temperature Resistance	Exposure*	Dry heat
	Permanent	+50°C
	Short-term max. 7d	+80°C
	Short-term max. 4h	+100°C
	No simultaneous chemical and mechanical exposure. Short-term moist/wet heat up to +80°C where exposure is only occasional (high pressure water jetting etc.)	

SYSTEMS

Systems

Sealing of EP/PUR broadcast systems:

Primer: 1 x Sikafloor®-156 / -161 lightly broadcast with quartz sand (0.3 - 0.8 mm)

Base coat: 1 x Sikafloor®-261 / 325 + quartz sand

Broadcasting: Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm

Seal coat: 1 x Sikafloor®-359 N

Car park decking systems (according to the German Standard DAfStb Rili-SIB

2001):

Classification OS 11a

Primer: 1 x Sikafloor®-156 / -161 lightly broadcast with quartz sand (0.3 - 0.8 mm)

Base coat: 1 x Sikafloor®-350 N

Wearing course: 1 x Sikafloor®-355 N (filled with 20% quartz sand 0.1-0.3 mm)

Broadcasting: Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm

Seal coat: 1 x Sikafloor®-359 N

Classification OS 11b

Primer: 1 x Sikafloor®-156 / -161 lightly broadcast with quartz sand (0.3 - 0.8 mm)

Wearing course: 1 x Sikafloor®-350 N (filled with 20% quartz sand 0.1-0.3 mm)

Broadcasting: Broadcast to excess with quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm

Seal coat: 1 x Sikafloor®-359 N

APPLICATION INFORMATION

Consumption

Coating System	Product	Consumption
Seal coat for EP / PUR broadcast systems Quartz sand 0.3 - 0.8 mm Quartz sand 0.7 - 1.2 mm	Sikafloor®-359 N	~ 0.7 - 0.9 kg/m ²

Car park decking systems (according to the German Standard DAfStb Rili-SIB 2001):

Classification OS 11a

Coating System	Product	Consumption
Primer (lightly blinded)	Sikafloor®-156 / -161 Quartz sand 0.3 - 0.8 mm	0.3 - 0.5 kg/m ² ~ 0.8 kg/m ²
Base coat	Sikafloor®-350 N Elastic	~ 2.0 kg/m ²
Wearing course	Sikafloor®-355 N filled Broadcast in excess with Quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm	~ 1.86 kg/m ² (1.55 kg/m ² binder + 0.31 kg/m ² quartz sand 0.1-0.3mm) 6 - 8 kg/m ²
Seal coat	Sikafloor®-359 N	0.7 - 0.9 kg/m ²

Classification OS 11b

Coating System	Product	Consumption
Primer (lightly blinded)	Sikafloor®-156 / -161 Quartz sand 0.3 - 0.8 mm	0.3 - 0.5 kg/m ² ~ 0.7 kg/m ²
Wearing course	Sikafloor®-350 N filled Broadcast in excess with Quartz sand 0.3 - 0.8 mm or 0.7 - 1.2 mm	~ 2.4 kg/m ² (2.0 kg/m ² binder + 0.4 kg/m ² quartz sand 0.1-0.3 mm) 6 - 8 kg/m ²
Seal coat	Sikafloor®-359 N	0.7 - 0.9 kg/m ²

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.

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

Temperatures

+10°C

+20°C

+30°C

Time

~ 40 minutes

~ 25 minutes

~ 15 minutes

Curing Time

Before applying Sikafloor®-359 N on Sikafloor®-375/ -350 N/ -326/ -261 broadcast allow:

Substrate temperature

+10°C

+20°C

+30°C

Minimum

24 hours

12 hours

6 hours

Maximum

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*

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

Applied Product Ready for Use

Temperature

+10°C

+20°C

+30°C

Foot traffic

~ 48 hours

~ 24 hours

~ 16 hours

Light traffic

~ 5 days

~ 3 days

~ 2 days

Full cure

~ 10 days

~ 7 days

~ 3 days

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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

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.

MIXING

Part A : part B = 78 : 22 (by weight)

APPLICATION

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 EQUIPMENT

Clean all tools and equipment immediately after use with Colma-Cleaner. Once hardened, the material can only be removed mechanically. Wash soiled hands and skin thoroughly with hot soapy water.

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.

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.

ECOLOGY, HEALTH AND SAFETY

Ecology

In a liquid state comp. (A+B) can contaminate water. Do not dispose of into water or soil but according to local regulations

Transport

Comp. (A): Non-hazardous.

Comp. (B): Non-hazardous.

Safety precautions

This product can cause skin irritation to persons with sensitive skin. Always rub barrier cream into hands and exposed skin before starting work. Wear protective clothing (gloves and goggles). If Sikafloor®- 359N is accidentally splashed into the eyes, nose, mouth or throat, flush immediately with plenty of clean, warm water and seek medical attention without delay.

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

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