

Product Data Sheet
Edition 12/09/2013
Identification no:
02 08 01 04 034 0 000001
Sikafloor®- 316

Sikafloor®- 316

2-component clear coat based on polyurea technology to be used on rigid floors.

Product Description	Sikafloor®-316 is a two component very low VOC, glossy clear coat based on polyurea technology.		
Uses	Glossy clear coat to seal Sikafloor® epoxy and tough-elastic polyurethane flooring		
Characteristics / Advantages	<ul style="list-style-type: none"> • based on Polyurea technology • Low odour • Good UV resistance, non-yellowing • UV inhibitor • Easy to clean • Highly scratch resistant • Good chemical resistance 		
Product Data			
Form			
Appearance / Colours	Part A:	clear liquid	
	Part B:	clear liquid	
	Part A+B:	clear liquid	
Packaging	Part A:	0,55 kg	
	Part B:	4,45 kg	
	Part A+B:	5.0 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 +30°C.		



Technical Data

Product Declaration Coating for concrete protection according to the requirements of EN 1504-2:2004 for principles 2,3,5,6,8 as a Coating (C) and Conforms to the requirements of EN 13813: 2002, DoP 02 08 01 04 034 0 000001 2017 certified by Factory Production Control Body, 0921 and provided with the CE-mark.

Chemical Base Based on polyurea technology

Density
 Part A: ~ 1,03 kg/l
 Part B: ~ 1,16 kg/l
 Mixed Resin: ~ 1.14 kg/l
 All Density values at +23°C.

Solvent Content (V.O.C.) 78 g/L (EPA Method 24)

EU Regulation 2004/42 According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type **sb**) is 140 g/l (Limit 2010) for the ready to use product.
VOC - Decopaint Directive The maximum content of **Sikafloor®-316** is < 140 g/l VOC for the ready to use product.

USGBC LEED Rating Sikafloor®-316 conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings
 EPA Reference Test Method 24 VOC Content < 100 g/l
 SCQAMD Reference Test Method 304 VOC content < 100 g/l

Mechanical / Physical Properties

Slip resistance Slip Resistance Values

	DIN 51130 R value	DIN 51130 V value	EN 13036-4 SRV
Sikafloor Decoflake + Sikafloor®-316 + 2% skid inhibiting agent	R9	n/a	20
Smooth Sikafloor EP + Sikafloor®-316 + 2% skid inhibiting agent	R9	n/a	23

Abrasion Resistance 22 ± 3 mg loss (unfilled material) (ASTM D-4060)
 62 ± 4 mg loss (filled with 2% Sika antiskid agent) (ASTM D-4060)
 (CS-17 wheel, 1000 cycles, 1000 gr load) Taber Abraser

Resistance

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

UV Resistance No colour change (yellowing) when exposed to QUV accelerated test



System Information

System Structure Sikafloor®-316 can be used as clearcoat on Sika Decoflake, Sika Decofloor, Sika Compactfloor, Sika Economy line epoxies and Sikafloor-326/3260 system build-ups. Please consult the respective System Data Sheets.

Application Details

Consumption / Dosage

Coating System	Product	Consumption per layer
On smooth surfaces	Sikafloor®-316 + 2% Sika Antiskid agent	ca. 0.07 - 0,08 kg/m ²
On broadcasted / flaked surfaces	Sikafloor®-316 + 2% Sika Antiskid agent or 30-50% Corundum	ca. 0,1 – 0,12 kg/m ² or ca. 0,13 – 0,14 kg/m ² in case of corundum

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

Lower consumption can cause roller marks, gloss differences and irregular surface structure, higher consumption result in water retention.

Application Conditions / Limitations

Substrate Temperature +10°C min. / +30°C max.

Ambient Temperature +10°C min. / +30°C max.

Relative Air Humidity < 100 % max. - 30 % min.

Dew Point Beware of condensation!
The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.

Application Instructions

Mixing Part A : part B = 11 : 89 (by weight)

Mixing Time Prior to mixing, ensure part A is homogeneous, pour part A into part B and mix continuously for 3 minutes until a uniform mix has been achieved.
After mixing A and B, 2% by weight Sika Antiskid agent PP aggregates **must** be added to the mix. These aggregates create a better skid resistance, improve the wetting and adhesion on Sika Decorative flooring, break the surface appearance and due to that hide imperfections in the subfloor or epoxy resin.
Alternatively corundum (aluminium oxide) can be used as highly scratch- and abrasion resistant aggregate as well, up to 50% in weight.
Check the mixing result and the absence of lumps or agglomerates on a mixing blade.
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®-316 must be thoroughly mixed using a electric stirrer or other suitable equipment.



Application Method / Tools

For general instructions on applications and conditions please consult the General Sikafloor Method Statements for Surface Evaluation & Preparation and for Mixing & Application

Surface Preparation:

Before applying Sikafloor®-316 on Sikafloor® epoxies or tough elastic PU's the surface must be treated with a green Scotch-Brite™ pad to remove contaminations like grease, fat, laitance, loose materials, dust, waxes and/or additives. Alternatively it can be cleaned professionally with Kärcher RM 776 or Veroclean from Johannes Kiehl KG.

Application method

When installing Sikafloor® -316, make use of Micro-fibre rollers with a fibre length of ~ 10 mm and a paint grid.

Place a paint grid in the mixed Sikafloor®-316 to ensure the wetting out of the roller. Under no circumstances should the material be poured directly onto the substrate and then rolled out. Divide the area to be coated into parts for the number of A + B units, to have consumption under control and to know how far to paint with each A + B mixture. The rollers should be wetted before starting and a 25 cm roller will absorb approx. 0.3-0.5 kg coating. With a small quantity mixed product, pre-coat the edge areas with brush and small micro-fibre roller with a fibre length of ~ 10 mm. But never go further ahead than 10 minutes to the regular rolling, to obtain minimal visibility.

Within the pot-life (as soon as possible) depending on the temperature 30 min (30°C) – 90 min (10°C) the product is applied on the substrate under observation of the coverage rate.

Wet the roller in the pail and roll out on the paint grid. Apply on the surface, roll intense and cross wise.

Attention: the end of the pot-life is not noticeable!

A seamless finish can be achieved if a “wet” edge is maintained during application

Potlife

Temperature	Time
+10°C	~ 90 minutes
+20°C	~ 60 minutes
+30°C	~ 30 minutes

Caution: End of potlife is not noticeable.

Waiting Time / Overcoating

Before applying Sikafloor®-316 on Sikafloor® epoxies or tough elastic PU's the surface has to be treated with a green Scotch-Brite™ pad to remove contaminations or be cleaned professionally with Kärcher RM 776 or Veroclean.

Substrate temperature	Minimum	Maximum
+10°C	30 hours	4 days
+20°C	24 hours	3 days
+30°C	16 hours	2 days

Before applying Sikafloor®-316 on Sikafloor®-316 the surface must be sanded thoroughly by using sanding paper (P80). After sanding the surface must be checked for absence of glossy parts.

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



Curing Details

Applied Product ready for use (60% RV)

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 20 hours	~ 48 hours	~ 10 days
+20°C	~ 16 hours	~ 36 hours	~ 7 days
+30°C	~ 12 hours	~ 24 hours	~ 5 days

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

Cleaning / Maintenance

Methods For cleaning and maintenance, please consult the Sikafloor cleaning and maintenance guidance.

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.

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.

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.

It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.



Sika Services AG
Tüffenwies 16
CH-8048 Zurich
Switzerland

Phone +41 44 436 40 40
Telefax +41 44 436 46 86
www.sika.com