BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-315

ABRASION RESISTANT ALIPHATIC POLYURETHANE SEAL COAT

DESCRIPTION

Sikafloor®-315 is is a three and four parts, high solids, abrasion resistant, aliphatic polyurethane based textured coatings.

USES

- Seal coat for Sikafloor epoxy floors.
- High traffic areas requiring wear resistant coatings.

CHARACTERISTICS / ADVANTAGES

- High Solids
- Excellent abrasion, wear, impact resistances
- Good UV resistance, non-yellowing
- Textured surface
- Good Chemical Resistance
- Available un-pigmented (3 parts) and pigmented (4 parts)

PRODUCT INFORMATION

Chemical Base	PUR	
Appearance / Colours	Sikafloor®-315 is semi-gloss after final curing. Sikafloor®-315 is available either transparent or in several standard colours. Please consult us.	
Packaging	**Un-Pigmented Set**	**Pigmented Set**
	Part A: 2.83 kg	Part A: 2.83 kg
	Part B: 0.42 kg	Part B: 0.42 kg
	Part C: 2.13 kg (filler)	Part C: 2.13 kg (filler)
		Part D: 0.62 kg (pigment pack)
	Part A+B+C 5.38 kg/set	Part A+B+C+D 6.0 kg/set
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging	
Storage Condition	Stored in dry conditions at temperatures between +5°C and +30°C.	
Density	Part A: ~1.14 kg/L Part B: ~ 0.99 kg/L Mixed Resin: ~ 1.6 kg/L (all 4 components) All Density values at +23 °C	Part C: ~4.0 kg/L Part D: ~ 2.0 kg/L

TECHNICAL INFORMATION

Hardness	2H - 3H After 28 days, at 23°C/50% r.h.	(ASTM D3363 Pencil)
Abrasion Resistance	10-20 mg (CS 17/1000/1000) After 28 days, at 23°C/50%r.h.	(ASTM D 4060)
Tensile Strength	19.8 MPa After 28 days, at 23°CC/50% r.h.	(ASTM D2370)
Dry Film Thickness	0.09 mm DFT @ 0.1 mm WFT	
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.	
VOC (g/L)	114 g/L	(ASTM D2369-07)

SYSTEM INFORMATION

Systems

Sealing of smooth EP coatings and Sikafloor® 263SL HC Décor

Base coat: e.g. Sikafloor®-263 SL HC /-264 coating (Please consult data sheets)
Sikafloor®-263 SL HC Décor (Please consult data sheet)

Matt seal coat: 1 x Sikafloor®-315

APPLICATION INFORMATION

Mixing Ratio

Part A : part B: Part C: Part D = 100 : 15 : 75 : 22 (by weight)

Consumption

Coating System	Sealing of smooth surfaces
Product	Sikafloor®-315
Consumption	~0.08 liter (= 0.128 kg) per m2 of DFT of approx. 0.08 mm

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.

Relative Air Humidity

30% min. - 75% max.
During curing the humidity should not exceed 75 % max. Adequate fresh air ventilation must be provided to remove the excess moisture from the curing product.

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.

Substrate Temperature

+15°C min. / +30°C max.

Ambient Temperature

+15°C min. / +30°C max.

Waiting Time / Overcoating

Before applying Sikafloor®-315 on Sikafloor®-263 SL HC/ 263 SL HC

Décor allow:

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

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

Applied Product Ready for Use

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~30 hours	~48 hours	~6 days
+23°C	~5-6 hours	~24 hours	~5-7 days
+30°C	~ 12 hours	~ 18 hours	~ 3 days

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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The Sikafloor Epoxy coating shall be applied onto a concrete substrate that must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Pull-off strength must be not less than 1.5 N/mm². If in doubt, apply a test area first. (please consult related Sikafloor range product data sheets for details on required substrate quality).

The Sikafloor epoxy coating shall be cured and perfectly clean, sound and dry prior application of Sikafloor®- 315.

SUBSTRATE PREPARATION

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

Prior application of Sikafloor®- 325 onto epoxy substrate, it is recommend to roughness slightly the surface with light abrasive pads (i.e Scotch-Brite pads) and then remove all loose adhering particles.

MIXING TIME

Do not mix more material than can be applied within the working time limits at the actual site temperature. Empty completely the Part A, into a clean mixing container large enough to accommodate the whole set.

Then with a Jiffy mix paddle and drill, add the Part B.

Mix at low speed for 1 minute.

Then, if pigmented version is required, add the part D.

Mix for further 2 minutes.

Finally, add slowly (don't dump!) the part C (filler for textured surface) while mixing to avoid clumping. Mix for 2 minutes.

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®-315 must be thoroughly mixed using a electric stirrer or other suitable equipment.

APPLICATION

Prior to application, confirm relative air humidity and dew point.

The Floor should be divided into section sections that can be completed without stopping.

Section should be divided at expansion joints or doorways when possible. The End of the section should be taped off to form a straight line providing a clean edge for an adjacent section.

Sikafloor®- 315 must be applied with a 3/8" (1cm) nap roller. The roller should be wet in the roller tray or bucket and the excess coating is removed by lightly rolling the tray or bucket screen so as to avoid drips.

Then apply 3 pairs of 2.5-3 m long paths on to the floor.

Then spread the material with roller passes perpendicular to the paths of the coating.

The material may be rolled to even the thickness which needs to be in the 0.08 to 0.09 mm WFT range in order to achieve proper appearance, texture, and colour development.

If applied to thick, the material may blister, if too thin, the coating will appear very flat in sheen.

It is also important to remix material often with the roller in the tray to keep filler from settling.

Cross roll the entire area with straight uninterrupted passes across the entire width of the floor. This will reduce roller marks and make the colour even.If appearance is still not uniform after a few passes, repeat this procedure.

CLEANING OF TOOLS

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®-304 W must have all spillages removed immediately and be regularly cleaned.

Please refer to the Sika Cleaning Regime.

LIMITATIONS

- Freshly applied Sikafloor®-315 must be protected from damp, condensation and water for at least 24 hours (+20°C).
- Unevenness of substrates as well as inclusions of dirt cannot be covered by thin sealers coats. Therefore substrate and adjacent areas must be cleaned thoroughly prior to application.
- Do not use on exterior, on-grade substrates Do not thin this product. Addition of thinners will slow the cure and reduce the ultimate properties of this product.

Tools
Electric drill,mixing-blade, brushes and short pilled rollers 10 up to 70 cm for surface area – amount depending on size of floor). Roller frames and telescopic extension handles, tape and spatula. Plastic sheeting for placement of wet rollers.

Recommended supplier of tools:
TECHNO-Werkzeuge A.E; Vertriebs GmbH
Dieselstr. 44; 42579 Heiligenhaus, Phone: 02056 / 9846-0
Info@Techno-Vertrieb.de; Homepage: http://www.techno-vertrieb.de
PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com.

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.

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 declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / j type sb) is 500 g/l (Limits 2010) for the ready to use product.
The maximum content of Sikafloor®-381 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 re- serves 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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