

PRODUCT DATA SHEET

Sikafloor®-315

Abrasion Resistant Aliphatic Polyurethane Seal Coat

DESCRIPTION

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

USES

Sikafloor®-315 may only be used by experienced professionals.

- Seal coat for Sikafloor series product
- High traffic areas requiring wear resistant coatings

CHARACTERISTICS / ADVANTAGES

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

APPROVALS / STANDARDS

GB/T 22374-2018

PRODUCT INFORMATION

Chemical Base	Polyurethane	
Packaging	Un-Pigmented Set	Pigmented Set
	Part A: 2.83 kg/pail	Part A: 2.83 kg/pail
	Part B: 0.42 kg/pail	Part B: 0.42 kg/pail
	Part C: 2.13 kg/pail	Part C: 2.13 kg/pail
		Part D: 0.62 kg/pail
	Unit: 5.38 kg/set	Unit: 6 kg/set
Appearance / Colour	Part A	Liquid, transparent
	Part B	Liquid, yellowish transparent
	Part C	Powder, white
	Part D	Paste, colored
	Remarks	Standard Colour
		RAL 7035: Light Grey
		RAL 7040: Window Grey
Shelf Life	12 months from date of production.	
Storage Conditions	Stored properly in original, unopened and undamaged sealed packaging in dry conditions.	

Density	Part A	~ 1.14 kg/l
	Part B	~ 1.0 kg/l
	Part C	~ 4.0 kg/l
	Part D	~ 2.0 kg/l
	Mixed Resin	~ 1.6 kg/l(all 4 components)
All Density values at +23 °C.		

Volatile Organic Compound (VOC) Content	~ 107 g/l	USEPA Method 24
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TECHNICAL INFORMATION

Shore Hardness	2H to 3H at 23 °C/50 % r.h.28 days	(ASTM D3363 Pencil)
Abrasion Resistance	< 10–20 mg	CS17/1000/1000
Resistance to Impact	Heavy Duty (1000g/1m)	GB/T 22374-2018
Tensile Strength	19.8 MPa at 23 °C/50 % r.h. at 28 days	(ASTM D2370)
Coefficient of Friction	> 0.5(Dry friction of coefficient) Pendulum test value: Dry=136, Wet=30	GB/T 22374-2018 BS7976-2:2002

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B: Part C: Part D = 100 : 15 : 75 : 22 (by weight)		
Consumption	Coating System	Product	Consumption
	Sealing of smooth surfaces	Sikafloor®-315	~ 0.08 liter (= 0.128 kg) per m ² 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.			
Product Temperature	+10°C min. / +30°C max.		
Ambient Air Temperature	+10°C min. / +30°C max.		
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	+10°C min. / +30°C max.		
Waiting Time / Overcoating	Before applying Sikafloor®-315 on Sikafloor® self-leveling system allow:		
	Substrate temperature	Minimum	Maximum
	+10°C	30 hours	2 days
	+20°C	24 hours	1.5 days
	+30°C	16 hours	1 day
Applied Product Ready for Use	Temperature	Tack Free	Light traffic
	+10°C	~ 30 hours	~ 48 hours
	+20°C	~ 16 hours	~ 24 hours
	+30°C	~ 12 hours	~ 18 hours
			Full cure
Note: Times are approximate and will be affected by changing ambient conditions.			

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.

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.
- If use on exterior, maybe slightly yellowing occur.
- Do not thin this product. Addition of thinners will slow the cure and reduce the ultimate properties of this product.
- 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.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

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

SUBSTRATE QUALITY / PRE-TREATMENT

- 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.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.
- Prior application of Sikafloor®-315 onto epoxy substrate, it is recommend to rough slightly the surface with light abrasive pads (i.e Scotch-Brite pads) and then remove all loose adhering particles.

MIXING

Empty completely the Part A, into a clean mixing container large enough to accommodate the whole set, then mix with a Jiffy mix paddle and drill, add the Part B, mix at low speed for approx.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 approx. 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. Note: Part C must be mixed in Un-Pigmented Set and Pigmented Set. Do not mix more material than can be applied within the working time limits at the actual site temperature

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.
- Pour the mixture of Sikafloor®-315 onto the application area, and spread it uniformly with smooth trowel. In order to get better appearance, texture and uniform glossy, the wet film thickness must be controlled in approx. 0.08mm.
- Then immediately back roll the material using short pile roller. The roller should be wet in the roller tray or bucket wet and the excess coating is removed to avoid drips.
- If applied too thick, the material may blister, or have roller marks, if too thin; the coating will appear very flat in sheen.

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

CLEANING

- To maintain the appearance of the floor after application, Sikafloor®-315 must have all spillages removed immediately and be regularly cleaned.
- Please refer to the Sika Cleaning Regime.

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.

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.

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