

PRODUCT DATA SHEET

Sikafloor®-315

ABRASION RESISTANT ALIPHATIC POLYURETHANE SEAL COAT

DESCRIPTION

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

USES

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

Sikafloor®-315 is used as :

- Seal coat for Sikafloor® series products.
- Wear resistant coating for high traffic areas.

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)

APPROVALS / STANDARDS

GB/T 22374-2018

PRODUCT INFORMATION

| | | |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Chemical Base | PUR | |
| 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 | Part C: 2.13 kg |
| | Part D: 0.62 kg | Part D: 0.62 kg |
| | Unit: 5.38 kg | Unit: 6 kg |
| Appearance / Colour | Part A | Liquid, transparent |
| | Part B | Liquid, yellowish transparent |
| | Part C | Powder, white |
| | Part D | Paste, colored |
| Shelf Life | 12 months from date of production. | |
| Storage Conditions | Stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C. | |
| 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 | ~ 100 g/L | GB/T 22374-2018 |
| Abrasion Resistance | < 0.03 g | GB/T 22374-2018 |
| Resistance to Impact | Heavy Duty (1000 g / 1 m) | GB/T 22374-2018 |
| Chemical Resistance | Resistant to many chemicals. Please ask for a detailed chemical resistance table. | |
| Coefficient of Friction | > 0.5 (Dry friction of coefficient) | GB/T 22374-2018 |

APPLICATION INFORMATION

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|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------|------------------|
| Mixing Ratio | Part A : Part B: Part C: Part D = 100 : 15 : 75 : 22 (by weight) | | | |
| Consumption | <u>Coating System</u> | <u>Product</u> | <u>Consumption</u> | |
| | Sealing of smooth surfaces | Sikafloor®-315 | ~ 0.08 liter (= 0.128 kg) per m ² for 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: | | | |
| | <u>Substrate temperature</u> | <u>Minimum</u> | <u>Maximum</u> | |
| | +10°C | 30 hours | 4 days | |
| | +20°C | 24 hours | 3 days | |
| | +30°C | 16 hours | 2 days | |
| Applied Product Ready for Use | <u>Temperature</u> | <u>Tack Free</u> | <u>Light traffic</u> | <u>Full cure</u> |
| | +10°C | ~ 30 hours | ~ 48 hours | ~ 6 days |
| | +20°C | ~ 16 hours | ~ 24 hours | ~ 4 days |
| | +30°C | ~ 12 hours | ~ 18 hours | ~ 3 days |
| | Note: Times are approximate and will be affected by changing ambient conditions. | | | |

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 sub-

strate, 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

- 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.
- Note: Part C must be mixed in Un-Pigmented Set and Pigmented Set.

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. 0.08 mm.
- 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.

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.
- 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 for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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.

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.

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December 2019, Version 01.01
020812040030000001