BUILDING TRUST

PRODUCT DATA SHEET

# Sikafloor®-315

ABRASION RESISTANT ALIPHATIC POLYURETHANE

## PRODUCT DESCRIPTION

Sikafloor®-315 is a high solids, abrasion resistant, aliphatic polyurethane coating. It can be applied as a clear or pigmented coating. Wear additive can be included for additional abrasion resistance.

## USES

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

Sikafloor®-315 displays excellent UV resistance and chemical resistance. The excellent adhesion properties and wear resistance are designed for light to heavy duty traffic areas.

## CHARACTERISTICS / ADVANTAGES

- High Solids
- Superior abrasion, wear, impact resistances
- Excellent UV resistance, non-yellowing
- Excellent Chemical Resistance

## PRODUCT INFORMATION

| | | |
|---|---|---|
| **Packaging** | Part A | Box containing 2 cans<br>each can containing 0.34 US gal |
| | Part B | Pail containing 2 US gal |
| | Part C | Box containing 2 cans<br>each can containing 9 lb |
| | Clear Combo Kit | 1 box of Part A<br>2 pails of Part B<br>1 box of Part C<br>*Sikafloor® Urethane Pigment Pack not included |
| | Pigmented Combo Kit | 1 box of Part A<br>2 pails of Part B<br>1 box of Part C<br>*Sikafloor® Urethane Pigment Pack not included |
| **Appearance / Color** | Clear or Pigmented with Sikafloor® Urethane Pigment Packs | |
| **Shelf Life** | 24 months from date of production | |
| **Storage Conditions** | Store dry between 40-90° F | |

## TECHNICAL INFORMATION

| | | |
|---|---|---|
| **Abrasion Resistance** | 0.01-0.02 grams loss | ASTM D4060 |
| **Chemical Resistance** | Resistant to many chemicals. Please consult Sikafloor Technical Services. | |
| **Coefficient of Friction** | 0.6 - 0.7 (Dry friction of coefficient) | ANSI 326.3 BOT 3000e |

## APPLICATION INFORMATION

| | | |
|---|---|---|
| **Mixing Ratio** | 1xPart A : 1xPart B : 1xPart C<br>Mix full units only | |
| **Coverage** | For 1 mix<br>Clear | 1,100 sq.ft. |
| | Pigmented | 1,200 sq.ft. |
| | 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** | 65° F min. / 85° F max. | |
| **Ambient Air Temperature** | 50° F min. / 85° F max. | |
| **Relative Air Humidity** | 30% min. - 75% max.<br>Delayed cure in low humidity environments.<br>During application and curing the humidity should not exceed 75% max. | |
| **Dew Point** | Beware of condensation!<br>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** | 50° F min. / 86° F max. | |

**Pot Life**

| Material Temperature | Time |
|---|---|
| +50° F | ~50 minutes |
| +68° F | ~25 minutes |
| +86° F | ~15 minutes |

***Do not apply after indicated Pot Life is exceeded. End of Pot Life is not visible.**

**Waiting / Recoat Times**

Before applying second coat of Sikafloor®-315 allow:

| Substrate temperature | Minimum | Maximum |
|---|---|---|
| 50° F | 24 hours | 2 days |
| 68° F | 8 hours | 24 hours |
| 86° F | 6 hours | 18 hours |

**Drying Time**

| Temperature | Foot Traffic | Light traffic | Full cure |
|---|---|---|---|
| 50° F | ~ 24 hours | ~ 6 days | ~ 10 days |
| 68° F | ~ 12 hours | ~ 4 days | ~ 7 days |
| 86° F | ~ 6 hours | ~ 2 days | ~ 5 days |

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

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## LIMITATIONS

- Freshly applied Sikafloor®-315 must be protected from damp, condensation and water for at least 24 hours (68° F).
- This product is not designed for negative side waterproofing.
- 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 $CO^2$ and $H_2O$ water vapor, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

- 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

Mix Ratio: 1xPart A : 1xPart B : 1xPart C = Mix full units only

Clear Resin:
Empty the entire contents of the Component B (Isocyanate) into a clean bucket/container large enough to accommodate the mix size quantity. Using a Jiffy Blade and drill, add the the Component A (Catalyst) to the Component B (Isocyanate) under agitation. Mix at low speed for 1 minute (300 - 450 rpm). Next, slowly add the wear additive aggregate to the material under agitation, mix for 2 minutes. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with

a flat or straight edge trowel at least once to ensure complete mixing.

Field Pigmented:
Premix each component separately. If color is desired, the appropriate Sikafloor Urethane Pigment Pack is added to Component B (Isocyanate) at a rate of 1 quart per 2.34 mixed gallons (i.e. Components A+B). Mix Component B (Isocyanate) and Sikafloor Polyurethane Color Additive for 2 minutes or until a uniform color is achieved with a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume. Empty Component A (Catalyst) in the correct mix ratio to Component B (Isocyanate) and mix for additional 2 minutes. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

**APPLICATION**

Prior to application confirm relative air humidity and dew point.

Application of Sikafloor®-315 using a Roller (with or without wear aggregate):

Sikafloor®-315 is applied with an 18 inch (454 mm) wide short nap roller, 3/8-inch (10 mm), solvent-resistant roller cover at a thickness of 3 – 3.5 mils (0.075 mm). The floor area to be coated should be divided into sections that can be done completely in one application sequence. Sections should be divided at expansion joints or doorways when possible. The end of a section should be taped off to form a straight clean edge for an adjacent section. Pour the material in a roller tray and saturate the roller, remove the excess material by lightly rolling it in the tray. Only cut in an area that can be topcoated within 10 minutes. Apply 3 pairs of 8 - 10 foot long paths on to the floor. Spread the material with roller passes perpendicular to the originally applied paths. This material may be aggressively rolled to even out the application. It is extremely important to apply the coating at a rate of 3 - 3.5 mils to achieve proper appearance, texture, and color stability. If material is applied too heavy, the coating may blister, if too thin, the coating will appear very flat in sheen. It is also very important to remix the material often with the roller in the tray to keep the aggregate from settling. Cross roll the entire area with straight uninterrupted passes across the entire width of the floor. This will reduce roller marks. If appearance is still not uniform after a few of these passes, repeat this procedure.

Application of Sikafloor®-315 using a Flat Squeegee (without wear aggregate):

Pour a thin ribbon, approximately 6''- 8'' wide of Sikafloor®-315 onto the floor surface. Using a flat squeegee spread the material at the manufacturers recommended rate. Avoid leaving puddles of the Sikafloor®-315 on the floor surface. Using a 3/8'' nap roller, back roll the material in the opposite direction that it was squeegee applied. Continue to back roll the material to achieve even coverage across the floor. The Sikafloor 315 can be rolled aggressively to remove any color shading. It is extremely important to apply this material at a rate of 3 – 3.5 mils (WFT). To finish, the Sikafloor®-315 should be cross rolled; uninterrupted across the entire width of the floor. This will help reduce roller marks. It is important to remix the remaining material in the bucket before a fresh ribbon of material is poured onto the floor. This will ensure that the Wear Additive is evenly dispersed in the Sikafloor®-315.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

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