**Sikafloor®-318 UV**

**WATER-BASED, NON-YELLOWING, CLEAR, SATIN, ALIPHATIC POLYURETHANE TOP COAT WITH UV BLOCKER TECHNOLOGY FOR FLOORS AND WALLS**

**Description**
Sikafloor®-318 UV is a two-component, water-borne, low odour, VOC compliant, non-yellowing acrylic-aliphatic polyurethane top coat. This high performance clear resin contains a unique UV blocker technology that provides superior ultraviolet light screening properties that significantly improves colour retention values of underlying resin floor systems. It has excellent clarity applied as a satin finish which minimises reflective gloss on general service or decorative Sikafloor® and Sikagard® resin floor and wall systems. Sikafloor®-318 UV has compatible thermal shock resistance when applied over Sikafloor® PurCem® mortar systems to minimize UV related colour change.

**Where to Use**
- Commercial and general service industrial environments
- Hospitals and healthcare facilities
- Schools, colleges and universities
- Grocery and department stores
- Museums, banks and institutional structures
- Offices and government buildings

**Advantages**
- Unique UV blocker technology provides superior ultraviolet light screening properties that significantly improves colour retention values of underlying resin floor systems
- Compatible thermal shock resistance when applied over Sikafloor® PurCem® mortar systems
- Low-odour formulation suitable for application in occupied facilities
- Long open time during application reduces the potential for lap marks
- Quick curing, tack-free and hard in less than one (1) hour for fast return to service
- Excellent UV resistance properties, non-yellowing
- Good abrasion and impact resistance
- Easily cleaned and maintained surface
- Reduced reflective gloss improves visual definition of decorative floors, including multi-coloured quartz and flake systems
- Reduced reflective gloss masks minor surface imperfections and improves aesthetics
- VOC compliant
- Meets the requirements of CFIA and USDA for use in food plants

**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Packaging</td>
<td>4 L (1.06 US gal.) unit. Components A+B in unitized carton.</td>
</tr>
<tr>
<td>Colour</td>
<td>Clear, Satin</td>
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<tr>
<td>Yield</td>
<td>20 m²/L (800 ft²/US gal.) at 2 mil (w.f.t.) / ~ 1.04 mil (d.f.t.) per coat.</td>
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<tr>
<td>Mix Ratio</td>
<td>A:B= 3.3:1 by volume</td>
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<tr>
<td>Pot Life</td>
<td>Max. 30 minutes</td>
</tr>
<tr>
<td>Waiting / Recoat Times</td>
<td>Min. 6 hours / Max. 24 hours</td>
</tr>
<tr>
<td>Abrasion Resistance ASTM D4060</td>
<td>~ 0.073 g (0.0024 oz) loss</td>
</tr>
<tr>
<td>Taber Abrader, Wheel CS 17/1000 g (2.2 lb)/1000 cycles</td>
<td>~ 0.073 g (0.0024 oz) loss</td>
</tr>
<tr>
<td>Dynamic Coefficient of Friction (DCOF) ANSI A326.3 -BOT 3000e</td>
<td>~ 0.37 Wet (smooth satin) ~ 0.80 Dry (smooth satin)</td>
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</tbody>
</table>
HOW TO USE

Surface Preparation

**New Sikafloor® or Sikagard® Surfaces:** All glossy or semi-gloss resin surfaces must be sanded (abraded) to remove any sheen or gloss. The prepared surface must be vacuumed then wiped clean with a solvent-moistened rag to remove all traces of dust, dirt or preparation residue prior to application of the Sikafloor®-318 UV top coat.

**Previously Coated Surfaces:** Existing coated surfaces must be intact and tightly bonded to the substrate. Completely remove all traces of waxes or sealers, dust, dirt, oil, grease or other contaminants that may inhibit bonding. Hard or glossy surfaces must be sanded (abraded) to remove any sheen or gloss. The prepared surface must be vacuumed then wiped clean with a solvent-moistened rag to remove all traces of dust, dirt or preparation residue prior to application of the Sikafloor®-318 UV top coat.

**Note:** Sika Canada strongly recommends that a trial application be carried out to determine compatibility and acceptable performance of Sikafloor®-318 UV with the existing surface, prior to general top-coating works being undertaken. Contact Sika Canada for recommendations.

Mixing

Pre-stir thoroughly each component to ensure that any settled material is broken up and all solids are evenly distributed. Uniform clarity and consistencies must be achieved within each component.

The container for Component A (resin) is partly filled and sized to allow use as the mixing vessel for a single unit. Start mixing Component A (resin) at low-speed (300 - 400 rpm) using an electric drill fitted with an Exomixer® type paddle (recommended model), ensuring the paddle is kept within the resin to avoid air entrapment. Add Component B (hardener) to the vortex of the resin being mixed and blend for three (3) minutes until a uniform consistency is achieved. During the mixing operations, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

**Note:** Mix full units only.

Application

Apply Sikafloor®-318 UV by dip and roll method using a 6 mm (1/4 in) low nap lint-free roller. For best results, it is recommended to back roll the wet material in a direction perpendicular to the application. Apply uniformly, avoiding puddles or ridges as they take longer to cure and may remain white, after cure, if very thick. Take care to maintain the ‘wet edge’ during application to minimize the potential for lap lines. Allow first coat to become hard dry before overcoating, approximately three (3) hours at 20 °C (68 °F). For correct inter-coat adhesion, additional coats must be applied within 24 hours at 20 °C (68 °F) of completing the previous coat. If the recoat time is passed, the existing top coat surface must be mechanically-abraded, vacuumed and wiped clean with a lint-free, solvent-dampened cloth before proceeding.

Clean Up

Clean tools and equipment immediately with water. Once hardened, product can only be removed manually or mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.

Limitations

- Sikafloor®-318 UV is best installed by skilled and experienced applicators. Contact Sika Canada for advice and recommendations.
- Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every three (3) hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise / fall, Relative Humidity increase / decrease, etc.)
- **Ambient and substrate temperature:** Minimum / Maximum 15 / 30 °C (59 / 86 °F).
- **Maximum Relative Humidity during application and cure:** 75 %.
- Low temperatures and/or high humidity will increase curing time.
- Sikafloor®-318 UV should not be applied when the Relative Humidity exceeds 75 % as curing times will be longer and water will be retained in the film reducing ultimate coating performance.
- Beware of condensation! The substrate temperature must be at least 3 °C (5.5 °F) above the measured dew point. Be aware the substrate temperature may be lower than the ambient temperature.
- Water-borne products require moisture to evaporate from the film to cure to full properties. Provide adequate fresh air ventilation to remove the excess moisture from the curing product.
- Protect from dampness, condensation and water contact during the initial 24 hour cure period.
- Maximum waiting time between coats: 24 hours at 20 °C (68 °F).
- **Product Temperature:** Precondition product for at least 24 hours at temperatures between 18 and 24 °C (65 and 75 °F) before application.
- Do not hand mix Sikafloor® materials: mechanical mix only.
- The consistent application of the product to the recommended wet film thicknesses is necessary to achieve a uniform appearance.
- Do not apply at thicknesses below or above those recommended as this will result in a variation in gloss level.
- Do not puddle or apply at excessive thicknesses as this will extend drying times and may cause the product to cure to a cloudy white finish.
- Unsuitable for use as an aggregate binder or mortar grout coat.
- Not suitable for exterior use; use for interior walls and floors only.
- Mechanical, chemical and physical properties will be fully achieved at full cure.
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- Published Dynamic Coefficient of Friction (DCOF) wet and dry test results are approximate values based on laboratory test samples produced in a controlled environment following the application instructions published on the product data sheet. Resin flooring products are hand-applied finishes subject to minor variations in surface texture due to influences partly beyond Sika Canada's control. Substrate profile, environmental conditions, variable regional aggregate size, shape and gradation, aggregate distribution, uniformity of applied resin mil thickness, and application technique can all affect the final DCOF test results achieved. Adequate provision should be made by the client throughout the selection and installation process to ensure the finished surface texture meets the end user's traction requirements.

**Health and Safety Information**

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

**KEEP OUT OF REACH OF CHILDREN**

FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca