

PRODUCT DATA SHEET

Sikafloor[®]-340

ABRASION AND UV RESISTANT ALIPHATIC URETHANE

PRODUCT DESCRIPTION

Sikafloor[®]-340 is an aliphatic urethane with excellent chemical resistance and UV resistance.

USES

Sikafloor[®]-340 may only be used by experienced professionals. Sikafloor[®]-340 is typically used in areas such as aircraft hangars, light to medium traffic areas, where light reflectance and chemical resistance to spills are required. It can be used as two part clear and three part pigmented coating.

CHARACTERISTICS / ADVANTAGES

- VOC compliant in 340 g/L regulated districts
- Excellent UV resistance
- Light reflectance
- Good stain resistance
- High abrasion resistance
- Excellent chemical resistance
- Wide range of colors using Sikafloor Urethane Color Additive
- Clear or Pigmented

PRODUCT INFORMATION

Packaging	Component A: 1.50 gal. (5.67 L) Isocyanate	Component A: 5 gal. (18.9 L)* Isocyanate
	Component B: 1.00 gal. (3.78L)	Catalyst Component B: 5 gal. (18.9 L) Catalyst
	Color Additive: 0.25 gal (0.95 L)	Component A+B: 15 gal. (56.7 L)
	Component A+B: 2.75 gal. (10.41 L) <small>(Only recommended for pigmented use)</small>	<small>*(2 Units needed)</small>
Appearance / Color	Clear or pigmented with Sikafloor [®] Polyurethane Color Additive; 1-quart (0.95 L) size per 2.5 mixed US gallon.	
Shelf Life	24 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 41 °F (5 °C) and 86 °F (30 °C).	
Volatile organic compound (VOC) content	≤ 280 g/L	(ASTM D-2369)

TECHNICAL INFORMATION

Abrasion Resistance	18 mg loss	(ASTM D-4060) (CS-17 Wheel, 1000 gm load, 1000 cycles)
Chemical Resistance	Please consult Sikafloor® Technical Services.	

APPLICATION INFORMATION

Coverage Depending upon profile of existing surface, coverage is approximately

350 ft² per gallon (8.6m²/L) per coat,
Clear at 350–400 ft² per gallon (8.6–9.8 m² /L) at 4–5 wet mils
Wet: 4.0–5.0 mils / coat
Dry: 2.0–3.0 mils / coat
Two (2) coats are suggested over a primed surface
(The above figures do not allow for surface profile or wastage)

Pot Life	Material Temperature	Time
	50 °F (10 °C)	~ 45 minutes
	68 °F (20 °C)	~ 30 minutes
	86 °F (30 °C)	~ 15 minutes

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

Cure Time	Ambient & Substrate Temperature	Foot traffic	Light traffic	Full cure
	50 °F (10 °C)	~ 24 hours	~ 6 days	~ 10 days
	68 °F (20 °C)	~ 12 hours	~ 4 days	~ 7 days
	86 °F (30 °C)	~ 6 hours	~ 2 days	~ 5 days

Waiting / Recoat Times

Before applying a second coat of Sikafloor®-340 allow:

Ambient & Substrate Temperature	Minimum	Maximum
50 °F (10 °C)	24 hours	3 days
68 °F (20 °C)	8 hours	2 days
86 °F (30 °C)	6 hours	1 day

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. Concrete - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever “shot-blasting” is utilized, be careful to leave concrete with a uniform texture. “Over-blasting” will result in

reduced coverage rates of the primer and/or subsequent topcoats. The “shotblast” pattern may show through the last coat, known as “tracking”. The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sikafloor Technical Services.

Priming

Priming for concrete substrate is required. Prime with either Sikafloor® 107, Sikafloor® 160, Sikafloor® 161 or Sikafloor® 1610. Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent coats. Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate. Please refer to the individual most current and respective Product Data Sheet for specific and detailed information.



MIXING

Mixing Ratio - 2 : 1 by volume.

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

Clear Resin:

Premix each component separately and divide each component into smaller portion (i.e. 2 gal. Component - A and 1 gal. Component - B). Empty contents of Component A or correctly measured part of such into a suitably sized and clean mixing container and add contents of Component B or correct ratio of such. Prepare only that quantity which can be used within the pot life of the material. Mix the combined components for at least 3 minutes using a low speed drill (300–450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. 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 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.

Mixing Ratio – 1.5:1 by volume + 1 quart Sikafloor Polyurethane Color Additive.

Field Pigmented:

Premix each component separately. If color is desired, the appropriate Sikafloor® Urethane Color Additive is added to Component A at a rate of 1 quart per 2.50 mixed gallons (i.e. Components A+B). Mix Component A (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 - B (Catalyst) in the correct mix ratio to component - A (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 coating. 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.

Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature

APPLICATION

Pour a thin bead (approximately 6"-12" wide) of Sikafloor®-340 on the surface, use a flat squeegee to distribute the material evenly and back roll. Back roll the Sikafloor®-340 only to level the thickness of material applied. Do not apply in excess of 5 mils (0.125mm) WFT, failure of the coating may occur. Divide the floor into sections (at expansion joints or doorways when possible) that can be completed without stopping. Where a section will end, it should be taped off to form a straight line providing a clean edge for an adjacent section. Back

rolling is typically done with an 18-inch (.5 m) short nap, 3/8-inch (9.5 mm), solvent resistant roller cover. Overrolling may cause non-uniform sections and bubbling.

LIMITATIONS

Notes on Limitations:

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 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

Substrate Moisture Content: Moisture content of concrete substrate must be ≤ 4 % by mass (pbw – part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4 % mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4 % by mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor® 1610 or Sikafloor® 81 EpoCem. When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be ≤ 85 %. If values are > 85 % according to ASTM F2170 use Sikafloor® 1610 or Sikafloor® 81 EpoCem. ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex® CME/CMExpert type concrete moisture meter as described above.

Material Temperature: Precondition material for at least 24 hours between 65 °F and 75 °F (18–24 °C)

Ambient Temperature: Minimum/Maximum 50/85 °F (10/30 °C)

Substrate Temperature: Minimum/Maximum 50/85 °F (10/30 °C). Substrate temperature must be at least 5 °F (3 °C) above measured Dew Point. Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65 °F (18 °C) will result in a decrease in product workability and slower cure rates.

Relative Ambient Humidity:

- Minimum ambient humidity 30 %
- Maximum ambient humidity 75 % (during application and curing)

Dew Point: Beware of condensation!

The substrate must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation, which may lead

to adhesion failure or “blushing” on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

Mixing: Do not hand mix Sikafloor materials. Mechanically mix only. Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty.

Application: Apply the coating to the prepared substrate which should be pore-free and pinhole-free. If necessary, apply an additional coat of a suitable material to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikafloor® to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor® product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikafloor® systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing.
- Typically not recommended for exterior slabs on grade where freeze/thaw conditions may exist.
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- Vapors from this product can be objectionable to people unaccustomed to the odor; do not apply in or around buildings occupied by non-construction personnel without consulting building management.
- Do not apply at a mil thickness greater than recommended. Too thick of an application may result in solvent entrapment and improper curing.
- For professional use only by experienced applicators.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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.

LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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