BUILDING TRUST

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 are required. It can be used as a 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 Pigment Packs
- Clear or Pigmented

PRODUCT INFORMATION

Packaging	Component A	(2) 1.5 gal (5.29 L) fill in 2 gal pail
	Component B	(2) 1.0 gal (3.78 L) fill in 2 gal pail
	Components Kit	5 gal (2A + 2B)
	Component A	(2) 5 gal (8.93 L) fill in 5 gal pail
	Component B	5 gal (8.93 L) fill in 5 gal pail
	Components Kit	15 gal (2A + B)
Appearance / Color	Clear or pigmented with Sikafloor® Urethane Pigment Pack; 1-quart (0.95 L) size per 2.5 mixed US gallon.	
Shelf Life	12 months in original unopened container under proper storage conditions	
Storage Conditions	The product must be stored in original, unopened, undamaged and sealed packaging in dry conditions at temperatures between 41 °F (5 °C) and 86 °F (30 °C).	

TECHNICAL INFORMATION

Shore D Hardness	80 - 85	ASTM D2240 at 73 °F (23 °C) and 50% R.H
Abrasion Resistance	27 mg loss (CS-17/1000 rotations/1000g)	ASTM D4060 at 73 °F (23 °C) and 50% R.H
Tensile Strength	6,745 psi (46 MPa)	ASTM D638 at 73 °F (23 °C) and 50% R.H
Tensile Adhesion Strength	435 psi (3 MPa)	ASTM D7234 at 73 °F (23 °C) and 50% R.H
Chemical Resistance	Please consult Sikafloor® Technical Services.	
Coefficient of Friction	0.45 Wet / 0.68 Dry	ANSI 326.3
Indentation	5.2%	MIL-PRF-24613
Elongation at break	4.0%	ASTM D4541 at 73 °F (23 °C) and 50% R.H

APPLICATION INFORMATION

Mixing Ratio

Pigmented	1.5 : 1 by volume
Clear	2 : 1 by volume

Coverage

Depending upon profile of existing surface, coverage is approximately 320 - 400 ft² per gallon (8.6 m²/L) per coat. Two (2) coats are suggested over a primed surface.

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

Ambient & Substrate Temperature	Light Traffic	Full Cure
50 °F (10 °C)	~ 24 hours	~ 3 days
68 °F (20 °C)	~ 8 hours	~ 2 days
86 °F (30 °C)	~ 6 hours	~ 1 day

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

Notes on Limitations:
Prior to application, measure and confirm 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.).

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 and primed 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 hours.
- 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.

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

Concrete surfaces must be clean, sound and primed.

Primer

Priming for concrete substrate is required. Prime with appropriate Sikafloor primer. 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 most current and respective Product Data Sheet for further information.

MIXING

Field Pigmented Mixing Ratio - 1.5 : 1 by volume + 1 quart Sikafloor® Urethane Pigment Pack

Premix each component separately. If color is desired, the appropriate Sikafloor® Urethane Pigment Pack 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® Urethane Pigment Pack 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 an 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.

Clear Resin Mixing Ratio - 2 : 1 by volume

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.

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

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 (0.125 mm) 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 (0.5 m) short nap, 3/8-inch (9.5 mm), solvent resistant roller cover. Overrolling may cause non-uniform sections and bubbling.

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**

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.

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