

Sikafloor® 340

Reduced VOC UV Resistant Aliphatic Urethane

Description	Sikafloor 340 is a two-component, reduced VOC chemical resistant aliphatic urethane that has exceptional resistance to most chemicals. It cures through chemical reaction and therefore is not dependent on atmospheric moisture.
Where to Use	<ul style="list-style-type: none"> Especially useful for floors in such areas as aircraft hangers, service bays, etc., where light reflectance and chemical resistance to spills are required. Can be used alone as clear, and is available in 18 additional colors by mixing the clear with Sikafloor Urethane Color Add.
Advantages	<ul style="list-style-type: none"> VOC compliant in 340 g/L regulated districts UV light resistance High light reflectance High abrasion resistance Excellent anti-stain properties Wide range of colors using Sikafloor Urethane Color Additive
Chemical Resistance	Please refer to the Sikafloor 340 chemical resistance guide or contact Sika Industrial Flooring Technical Service for specific chemical recommendations.
How to Use	
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 and contaminant free, open textured surface by shot blasting or equivalent mechanical means. (CSP-3 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. It is also possible that the texture of the shot-blast pattern may show through the finish coat. This is known as "tracking". The compressive strength of the concrete substrate should be at least 3500 psi (24 MPa) at 28 days and at least 250 psi (1.7 MPa) in tension at the time of application of Sikafloor 107 primer.

Typical Data

Shelf Life	1 year in original unopened container under proper storage conditions. Store dry between 40° - 90°F (5° - 32°C).	
Storage	Keep away from heat, sparks, and open flames. Keep containers closed when not in use. Do not store above 120°F (49°C)	
Pot Life	Useful working time is approximately 30-45 minutes at normal application temperatures and conditions of 75°F (24°C) and 50% R.H.	
Coverage	Depending upon profile of existing surface, coverage is approximately 350 ft ² per gallon (8.6m ² /L) per coat, <u>Clear</u> at 350-400 sq. ft. per gallon (8.6 - 9.8m ² /L): Wet: 4.0 - 5.0 mils/coat Dry: 2.0 - 3.0 mils/coat	
	<u>Clear</u>	<u>+ Sikafloor Urethane Color Add</u>
	Tack Free	7 hrs. 9 hrs.
	Recoat	12-18 hrs. 12-18 hrs.
	Light Traffic	24-48 hrs. 24-48 hrs.
	All cure times will vary depending on atmospheric conditions at the time of application.	
Color	Clear; other colors available with the use of Sikafloor Urethane Color Additive	
% Solids, by weight	Clear-50.0%	
VOC (g/l)	ASTM D2369-07	279 g/l
	290 g/L (with Sikafloor Urethane Color Additive)	
Flash Point, T.C.C.	81°F (27°C)	
Gloss @ 60°	90	
Recommended DFT at 350-400 sq. ft. per gallon (8.6-9.8 m²/L)	Clear: 2.5 - 3.0 mils DFT	
Suggested # of Coats	Two (2) coats over primed surface	
Dry Time @ 75°F (24°C)	Tack free 7 hours	

Light Traffic	24-48 hours	
Heavy Traffic	5 days	
Recoat Time @ 75°F(24°C)	12 to 18 hours; after 18 hours, screen before recoating.	
Typical Physical Properties:		
Abrasion Resistance	Taber Abraser CS-17 wheel, 1000 cycles, 1000 gm load	18 mg loss
Adhesion	To concrete: Existing CRU coatings with proper preparation	Excellent
Flexibility	Bent on 1/8" conical	No cracking mandrel or crazing
UV Light Resistance	Q-U-V Accelerated Weather Tester	Excellent
Slip Resistance	ASTM D-2047	Passes
Packaging	Sikafloor 340 COATING is packaged in full containers. Part "H" Hardener is packaged in a full five-gallon (18.9 L) pail or full one-gallon (3.8 L) containers. Part "R" Resin is packaged in a full five-gallon pail.	

Priming	Sikafloor 107 primer should be applied at 275-300 sq. ft. per gallon, over damp or dry concrete. Rough concrete surfaces will result in reduced coverage.
Mixing	<p>If clear coating is desired follow steps 1-4 below, use step 2a instead of 2b. If pigmented coating is desired follow steps 1-4 below, use step 2b instead of 2a.</p> <p>It is important to remember that this coating has a limited pot life. Therefore it is recommended to check and make sure all surface preparation is complete and installation equipment is ready before starting the mixing sequence. Color Additives: If color is desired, the appropriate Sikafloor Urethane Color Additive is added to the "Clear" Sikafloor 340 Part "R" Resin at the specified rate. Refer to the Sikafloor Urethane Data Sheet for specific ratios. Mix at the appropriate rate at low speed for a minimum of two minutes.</p> <ol style="list-style-type: none"> 1. The Sikafloor 340 Part "R" Base Resin must be mixed for a minimum of 2 minutes prior to the addition of the Sikafloor 340 Part "H". 2. Use exact ratios: 3. For clear, carefully measure one gallon of Sikafloor 340 Part "H" Hardener into 2 gallons (7.6 liters) of Sikafloor 340 Part "R" Resin. 4. For color base, carefully add one quart (0.95 liters) of Sikafloor Urethane Color Additive into 1-1/2 gallons (5.7 liters) of Sikafloor 340 Part "R" Resin. Mix thoroughly with a Jiffy mixer minimum of 2 minutes at low speed (300-450 rpm) being careful not to mix in air. Then add 1 gallon (3.8 liters) of Sikafloor 340 Part "H" Hardener and mix. 5. Mix with a variable speed Jiffy mixer, until completely blended. This will take about 2 to 3 minutes. Be careful not to introduce any air bubbles while mixing. 6. Due to the difference in viscosity between the Part "H" Hardener and Part "R" Resin, care must be taken to ensure that both components are thoroughly mixed in order to avoid weak or partially cured spots in the coating.
Application	Use a 3/8" (10 mm) solvent resistant cover and apply material at recommended coverage. Apply as evenly as possible. To lessen bubbling of the coating, avoid excessive agitation of the liquids with the roller or applicator.
Critical Recoat Time	It is important to apply subsequent coats of this and other products within 12 to 18 hours (under normal curing conditions). If this coating is allowed to cure longer than 18 hours before subsequent recoats, screening will be necessary. The floor surface should be screened to the effect that a uniform dullness is achieved. There should be no gloss present on the floor before applying the next coat.
Limitations	<ul style="list-style-type: none"> ■ Minimum/Maximum substrate temperature: 60°F/85°F (15.5°C/30°C). ■ Minimum/Maximum relative humidity: 10%/85%. ■ Substrate temperature must be at least 5°F (3°C) above measured dew point. ■ Conduct quantitative anhydrous calcium chloride testing in accordance with ASTM-F1869. Maximum acceptable test result is 3 pounds per 1,000 ft² per 24 hours. Determine the surface moisture content by using an impedance moisture meter designed for use on concrete as detailed in ASTM E-1907. Acceptable test results shall be 4% by mass or less. If over, use Sikafloor EpoCem 81/82 or Sikafloor Vapor Block. ■ Do not use on exterior, on-grade substrates. ■ Freshly applied Sikafloor 340 should be protected from dampness, condensation and water for at least 24 hrs. ■ Do not thin this product. Addition of thinners will slow the cure and reduce the ultimate properties of this product. Critical recoat times will also be affected. ■ Do not apply at a mil thickness greater than recommended. Too thick of an application may result in solvent entrapment and improper curing. ■ Vapors from this product can be objectionable to people unaccustomed to the odor; do not apply in or around buildings occupied by nonconstruction personnel without consulting building management.

Caution	<p>COMPONENT R: WARNING: COMBUSTIBLE, IRRITANT. Contains Solvents (Mixture). Keep away from heat, sparks, electrical equipment, open flame and other sources of ignition. DO NOT SMOKE. Use only in well ventilated areas. Open doors and windows during use. May cause eye/respiratory irritation. Harmful if absorbed through skin or swallowed. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Deliberate misuse by inhalation of vapors can be harmful or fatal.</p> <p>Strictly follow all use, handling and storage instructions.</p> <p>COMPONENT H: WARNING: COMBUSTIBLE, IRRITANT, SENSITIZER. Contains Polyisocyanate Prepolymer (Mixture), 1,2,4-Trimethylbenzene (CAS 95-63-6) Keep away from heat, sparks, electrical equipment, open flame and other sources of ignition. DO NOT SMOKE. Use only in well ventilated areas. Open doors and windows during use. Eye irritant. May cause skin irritation. May cause skin and/or respiratory sensitization after prolonged and repeated contact. Harmful if swallowed. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Deliberate misuse by inhalation of vapors can be harmful or fatal.</p> <p>Strictly follow all use, handling and storage instructions.</p>	
First Aid	<p>Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation – Remove to fresh air. Ingestion – Do not induce vomiting. Dilute with water. Contact physician. In all cases, contact a physician immediately if symptoms persist.</p>	
Handling & Storage	<p>Keep away from heat, sparks, electrical equipment, open flame and other sources of ignition. DO NOT SMOKE. Open doors and windows during use. Use adequate local and mechanical ventilation. Wear protective equipment (chemically resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use properly fitted NIOSH vapor cartridge respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing after use. Store product in tightly sealed containers in a cool, dry well ventilated area at temperatures between 40°F and 95°F and away from ignition sources. Empty containers may contain product residue including flammable or explosive vapors. Do not cut or puncture empty container.</p>	
Clean Up	<p>Avoid contact. Wear chemical resistant clothing/gloves/goggles. In absence of adequate ventilation; use a properly fitted NIOSH respirator. Uncured material can be removed with approved solvent. Follow solvent manufacturer's instructions for use and warnings. Cured material (when Component R combined with Component H) can only be removed mechanically. In case of spill, ventilate area and contain spill. Collect with absorbent material. Dispose of in accordance with current, applicable local, state, and federal regulations.</p>	
Additional Info	<p>Technical Data Sheets are updated periodically. To ensure the most current version is being used, visit Technical Resources on www.sikafloorusa.com. Proper material application is the responsibility of the user. Site visits made by Sika personnel are for making technical recommendations only and not for supervising or providing quality control.</p>	
Trouble Shooting	<p>Problem Observed</p> <p>Orange peel; Wrinkling</p> <p>Slow Cure</p> <p>Poor Gloss; Dull Finish</p> <p>Roller Marks in Finish; Bubbles in Finish; Product Curing Fast</p> <p>Fish eyes; Crawling</p> <p>Peeling between Coats</p>	<p>Possible Causes</p> <p>Product applied too heavily; Product applied over an incompatible existing coating; Recoating too soon.</p> <p>Low floor and ambient temperature; Improper mixing of components; Inadequate ventilation during application and cure; Product applied too thick.</p> <p>Solvent entrapment due to inadequate ventilation during application and cure; improper ratios.</p> <p>High floor and ambient temperatures; Humidity during application; Extra catalyst added to product; Product applied too thin.</p> <p>Improper substrate cleaning; Surface contamination of oil, grease, silicone, or mold release agents, etc.</p> <p>Past the critical recoat time; Contamination between coats; Recoating too late.</p>



Industrial Flooring

The Sika logo consists of the word "Sika" in a bold, italicized, sans-serif font, colored yellow. It is positioned inside a red triangle that points downwards. A registered trademark symbol (®) is located to the right of the word.

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