

Sure-Tough ST 3300

APPLIED POLYMER SOLUTIONS, LLC

PRODUCT PROFILE

GENERIC DESCRIPTION **WATERBASED URETHANE SEALER** - a two component water based catalyzed aliphatic high performance urethane emulsion sealer/topcoat that exhibits excellent abrasion resistance without the objectional solvent odors associated with other urethane products. This product has an extremely fast set time and a very long pot life.

RECOMMENDED USAGE Recommended for coating concrete or topcoating epoxy coatings. Do not use in immersion service or constant chemical exposure areas.

COLORS Clear only

CHARACTERISTS/FINISHES

SURFACE High-Gloss (>80 at 60 degrees @ Erichsen glossmeter

PRIMERS None required, though any suitable clear or pigmented epoxy can be used.

TOPCOATS/FINISHES None required. Multiple coats are of this product are compatible. Contact your sales representative for proper topcoat system selections.

TECHNICAL SPECIFICATIONS

SOLIDS BY WEIGHT Mixed: 30% (+/-2%)

THICKNESS 3-4 mils (wet) / .5-1 mils - dry film thickness

VOLITALE ORGANICS 1.03 pounds per gallon

MIX RATIO Part A: 1 gallon (8.5 lbs) / Part B: .77 grams (1 gallon total mix—77:1 mix ration by weight)

APPLICATION TEMP 55°F - 90°F (12°C - 32°C)

CURE SCHEDULE

	Cure State	70°F (21°C)
Pot Life		24 hours
Light Traffic/Recoat		1-2 hours
Full Cure/Heavy Traffic		24 hours

**Full chemical resistance may not be reached for up to 5 days,*

STORAGE TEMP 65°F - 85F° (18°C - 30°C) in a dry area. Avoid excessive heat and freezing.

SHELF LIFE 1 years in an unopened container

PACKAGING All kits are premeasured, ready for blending and application

Size	Part A	Part B	Coverage (1,604/WFT) x gallons
1 gallon kit	1 gallon	1 pint (not full)	400 - 550 sq. ft.
5 gallon kit	5 gallon	1 quart (not full)	2,000 - 2,750 sq. ft.

Published technical data and instructions may be modified at any time without prior notice. Please contact your Applied Polymer Solutions representative with any questions.

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SURFACE PREPARATION

SURFACE All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate.

MOISTURE Allow concrete to cure for 28 to 45 days. Verify dryness by testing for moisture with a “plastic film” test; this can be done at room temperature by placing a 4' x 4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. Should moisture be present, perform Moisture Vapor Emission Rate testing using Anhydrous Calcium Chloride (ASTM F1869). Moisture content should not be in excess of 3 lbs. per 1,000 sq. ft. for coatings (5 lbs. for resurfacers) in a 24 hour period.

MOST SURFACES Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete has an appropriate vapor barrier. This can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate does not show signs of eventual hydrostatic pressure problems that may later cause disbonding. However, this product can be applied to a damp floor as long as there are not standing puddles.

FILLING & PATCHING Voids, cavities, nail and bug holes should be filled with a recommended epoxy filler. All large cracks should be V cut and filled with an appropriate semi-rigid epoxy crack filler.

JOINTS All expansion joints should be filled with an appropriate joint filler. When overlaying an expansion joint, a single saw cut through the epoxy overlay will prevent random fracturing.

APPLICATION

MIXING Kits should be mixed in their entirety. If partial kits are to be used, refer to the front of this technical data for proper weight mix ratios. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. This product can be applied as either a one component (part A) product or the part B can be added. The part B increases the chemical resistance and physical properties by increasing the cross section cured density. We recommend that the part B be used for best results.

THICKNESS 3-4 mils (wet). The mixed material can be applied by brush or roller. Maintain temperatures and humidity within the recommended ranges during the application and curing process. When adding the part B, the pot life is reached after 24 hours. Although the material can still be applied after 24 hours, we recommend that the material be applied prior to 24 hours after the part B is blended into the part A. Improperly applying the material too thick may result in product failure.

RECOAT/TOPCOAT If you opt to recoat this product, you must first be sure that all of the solvents and water have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating can commence. We do not recommend any coatings be placed over this product except multiple coats of this product itself. If previous coats have a blush, clean with a standard type detergent cleaner.

CLEAN UP Citrus based cleaners or solvents such as PM solvent.

**Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.*

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FLOOR CLEANING

Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

- *Color stability may be affected by environmental conditions such as high humidity or chemical exposure.
- * Product is not UV color stable and may discolor if exposed to lighting such as sodium vapor lights.
- * Colors may vary from batch to batch due to variations in the silica filler.
- * Mortar colors are not from our standard color chart.
- * Substrate temperature must be 5 degrees F above dew point.
- * For chemical exposure areas, we recommend a suitable topcoat to reduce porosity and chemical migration.
- * Test data based on neat resin.
- *This product is not intended for use as a decorative coating or where color stability or visual appearance is of any significant importance. Its sole purpose is as a protective coating.
- *If a topcoat of a different color is to be used, multiple coats will be necessary to prevent bleed-through (discoloration)

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