

# Sure-Tough ST 3315

## APPLIED POLYMER SOLUTIONS, LLC

### PRODUCT PROFILE

**GENERIC DESCRIPTION** ALIPHATIC MOISTURE-CURED URETHANE SEALER - a one component moisture cured polyurethane (HDI based) floor coating/sealer that exhibits superior characteristics for abrasion resistance and chemical resistance. This product has good UV stability.

**RECOMMENDED USAGE** Recommended for showrooms, warehouses, laboratories, cafeterias, and most indoor chemical exposure areas with regard to concrete or cement.

**COLORS** Clear only

### CHARACTERISTICS/FINISHES

**SURFACE** High-Gloss (>70 at 60 degrees @ Erichsen glossmeter)

**PRIMERS** Recommend Sure-Tough ST 3245

**TOPCOATS/FINISHES** Not Recommended

### TECHNICAL SPECIFICATIONS

**SOLIDS BY WEIGHT** Mixed: 65% (+/-3%)

**THICKNESS** 2-4 mils (wet) / .5-1 mils - dry film thickness

**VOLATILE ORGANICS** 2.8 pounds per gallon

**MIX RATIO** One component

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

CURE SCHEDULE	Cure State	70°F (21°C)
	Pot Life	3-5 hours
	Light Traffic/Recoat	8-10 hours
	Full Cure/Heavy Traffic	24 hours

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

**STORAGE TEMP** 65°F - 85°F (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	Coverage (1,604/WFT) x gallons
1 gallon kit	400 - 800 sq. ft.
5 gallon kit	2,000 - 4,000 sq. ft.
55 gallon drum	22,000—44,000 sq. ft.

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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).
- 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** This product is a one component product. Before using stir well. Avoid whipping air into the coating when stirring.
- THICKNESS** 3-4 mils (wet). The material can be applied by brush or roller. Be sure to thoroughly roll out the material in successive passes to make sure the substrate is well wetted out. Read the MSDS before using. Maintain temperatures within the recommended ranges during the application and curing process. Properly prime the substrate. Too thick of an application or application to a damp surface may cause product failure. When using a primer other than those listed on the front of this technical data sheet, apply a test patch before overcoating the primer to determine suitability and compatibility.
- RECOAT/TOPCOAT** Multiple coats of this product are acceptable. If you opt to recoat this product, you must first be sure that all of the solvents 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 re-coat can be started. Always remember that colder temperatures will require more cure time for the product before recoating can commence. Before recoating or topcoating, check the coating to insure no contaminants exist such as an epoxy blush. If necessary, clean the surface prior to recoating with a standard type detergent cleaner. When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 24 hours passes. Also, it is advisable to degloss the previous coat to insure a trouble free bond, if more than 24 hours has elapsed since the previous coat.
- CLEAN UP** Use ketone solvents.

*\*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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