

Sure-Tough ST 3825

APPLIED POLYMER SOLUTIONS, LLC

PRODUCT PROFILE

GENERIC DESCRIPTION **OIL STOP EPOXY PRIMER** - is a two component solvent based epoxy coating that exhibits excellent characteristics for coating over petroleum based oil contaminated concrete. This product allows excellent substrate penetration that results in excellent adhesion and is an ideal primer for the oil contaminated concrete substrate.

RECOMMENDED USAGE Recommended for petroleum oil contaminated substrates. However, this product is not intended for use over vegetable oil, animal fat or synthetic oil contaminated concrete. This product can withstand exposure to many common solvents and chemicals.

COLORS Black only

CHARACTERISTICS/FINISHES

SURFACE Satin gloss (40-60 at 60 degrees @ Erichsen glossmeter)

PRIMERS Self Priming for multiple coats or 100% solids epoxy and urethane coatings

TOPCOATS/FINISHES Contact your sales representative for proper topcoat system selections. Multiple coats may be required when oil contamination is heavy.

TECHNICAL SPECIFICATIONS

SOLIDS BY WEIGHT Mixed: 71.5% +/- 2%

THICKNESS 5-8 mils (wet) / 3-5 mils - dry film thickness

VOLATILE ORGANICS Less than 2.62 pounds per gallon

MIX RATIO COLORS: Part A: 1 gallon / Part B: 1 gallon by volume approximate.

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

Cure State	70°F (21°C)
Pot Life	2-4 hours
Light Traffic/Recoat	4-6 hours
Full Cure/Heavy Traffic	12-24 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	Part A	Part B	Coverage (1,604/WFT) x gallons
2 gallon kit	1 gallon	1 gallon	480 - 550 sq. ft.
10 gallon kit	5 gallon	5 gallon	2400 - 2750 sq. ft.

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TECHNICAL SPECIFICATIONS (CONTINUED)

CHARACTERISTICS	Gloss - 40-60 at 60 degrees
VISCOSITY	150-300 cps (mixed)
BOND STRENGTH	350 psi (concrete failure)
HARDNESS	Shore D = 62
GARDNER VARIABLE IMPATOR	50 in/lbs direct - Passed
ABRASION RESISTANCE	CS-17 wheel with 1000 gm/500 cycles = 37 mg loss
FLEXIBILITY	No cracks on 1/8" mandrel
WEATHERING	Good Stability
DOT CLASSIFICATIONS:	
Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"	
Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"	

CHEMICAL RESISTANCE			
Ammonia	C	Sodium Hydroxide 50%	D
Citric Acid	B	Sulfuric Acid 30%	B
Corn Oil	B	HCl (aq) 36%	B
Lactic Acid	B	Nitric Acid 30%	A
Salt Brine	C	Phosphoric Acid 40%	A
Gasoline	B	Sodium Hypochlorite 3-5%	A
Motor Oil	C	MEK	A
Skydrol	B	Mineral Spirits	B

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

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** Aggressively shot-blast or mechanically prepare the substrate to properly profile the substrate and remove hardeners, curing compounds, sealers, laitance and other contaminants. All edges and around columns or beams should be mechanically scarified. All termination points should not be feather edged, but should be saw cut with the termination ending at the sawcut.
- 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 has a one to one mix ratio by volume- merely mix one gallon of part A with one gallon of part B. 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. Avoid whipping air into the coating. Improper mixing may result in product failure.
- THICKNESS** 5-6 mils (wet). We recommend one coat of SURE-TOUGH ST 3825 followed by one coat of ST 3245/3246 and then two additional coats of ST 3320 in the same color as the ST 3245/3246. Due to the vastly varying contamination parameters, it is recommended that the applicator both check the adhesion of this product to the substrate as well as a thorough evaluation of the proposed intermediate and topcoat selections. Petroleum based oils have a tendency to migrate upward through newly placed coatings and could cause disbonding if all preceding coats are not inspected prior to topcoating. Clean all previous coatings as necessary. THIS COATING SHOULD NOT BE USED UNTIL A REPRESENTATIVE SAMPLE PATCH HAS BEEN PLACED AND THOROUGHLY EVALUATED FOR SUITABILITY. Make certain that the floor temperature and air temperature is between 55 and 90 degrees Fahrenheit. Preferably, the relative humidity should be below 90%. This product should be applied by roller or brush at five to eight mil thickness when wet. Too thick of an application may result in product failure.

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APPLICATION (CONTINUED)

RECOAT/TOPCOAT After applying the Sure-Tough ST 3825 and the coating has cured sufficiently, the applicator can then proceed with the ST 3245/3246, ST 3320, application. Allow sufficient time between all subsequent coatings; and remember, as temperatures become lower all products will require additional time to cure. Read the individual technical data sheets for each product before proceeding. If different topcoats are desired, contact your representative for application details before proceeding.

CLEAN UP Citrus based cleaners or solvents such as Xylene.

**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.*

LIMITATIONS

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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