

Sure-Tough ST 3780

APPLIED POLYMER SOLUTIONS, LLC

PRODUCT PROFILE

GENERIC DESCRIPTION **COPOLYMER LIQUID RUBBER WALKWAY** - SURE-TOUGH ST 3780 is an elastomeric copolymer rubber based liquid with rubber granules incorporated to provide texture and slip resistance. The modified formulation has excellent elongation, UV resistance and weathering characteristics. This flexible textured membrane also has excellent resistance to ozone as well as low temperature flexibility. SURE-TOUGH ST 3780 liquid rubber walkway has displayed good adhesion to many properly prepared substrates including EPDM.

RECOMMENDED USAGE Recommended for most common roof substrates. Also excellent for walk path use with various types of roofing such as wood, metal, EPDM, APP, TPO, and Hypalon.

COLORS Medium Gray and Tile Red

CHARACTERISTICS/FINISHES

SURFACE Rubber pellet media is used to provide texture.

PRIMERS A primer is optional but recommended. Suggested primers are ST 3105 or ST 3246 as low odor options.

TOPCOATS/FINISHES None required; however, many epoxies and urethanes are compatible. Contact your sales representative for proper topcoat system selections. Multiple coats are required when topcoating over mortar.

TECHNICAL SPECIFICATIONS

SOLIDS BY WEIGHT 69% (+/-3%)

THICKNESS 90 mils will result in a 56 mil total dry film thickness (DFT)

VOLITALE ORGANICS 3.26 lbs per gallon

MIX RATIO 1 Part

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

CURE SCHEDULE

Cure State	70°F (21°C)
Full Cure/Heavy Traffic	24 hours

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/DFT) x gallons
5 gallon kit	85 sq. ft.
Additional Sizes Possible	

**Liquids only packaging available*

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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TECHNICAL SPECIFICATIONS (CONTINUED)

TYPICAL PROPERTIES: (LIQUID FORM)

PROPERTY	TEST METHOD	RESULT
Density	ASTM D1475 U.S. standard weight per gallon cup at 75°F and 50% R.H.	Mean=10.5#/gallon
VOC	EPA Method 24	3.26#/gallon
Heat stability	10 days at 120°F then re-evaluated	Material stability maintained
Shelf life	Closed container at 65°F	One year shelf life
Flash point	ASTM D3278 seta flash closed cup apparatus	105°F

BENEFITS OF USE

Excellent adhesion to a variety of substrates
 Excellent low temperature flexibility
 Excellent weathering - Excellent UV stability
 Good resistance to dirt pickup
 Excellent flexibility
 Meets Federal VOC requirements
 Resists mildew and fungi growth
 Good resistance to Alkalies and acids

TYPICAL PROPERTIES: (CURED FILM)

PROPERTY	TEST METHOD	RESULTS
Hardness	ASTM D2240 shore A @ 75°F 50% R.H. Bar-col hardness tester model 3061	50-60
Accelerated weathering	ASTM G53 (1000 hours QUV accelerated weather tester UV-B lamps no. QES-40/280-315 nanometers (12 hr. QUV @ 60°C and 12 hr. con @ 50°C)	Excellent with no apparent degradation
Tensile strength	ASTM D412 @ 75°F and 50% R.H. Test is result of medium value (for three)	1000 psi
Elongation	ASTM D412 @ 75°F and 50% R.H.	500% minimum
Reflectivity	ASTM E97	85% (white)
Water absorption		0.04%
Vapor transmission	ASTM D-986	0.025 perms

SURFACE PREPARATION

SURFACE Make certain that the substrate where the product is to be applied is clean, sound and free of all laitance, dirt, dust, oil, grease, water, dew or foreign contaminants. Power washing will be an effective preparation method for most substrates. Power washing will be an effective preparation method for most substrates. Wire brush or abrasive blast all loose and scaling rust from metal surfaces. When topcoating EPDM or seamed roofs, make sure all seams are secure. Surface must be dry before application.

APPLICATION

CONDITIONS Do not apply material when temperature is below 40°F during the application time or drying period. Apply material when RH is below 90% for best results. Allow for adequate dry times between coats and before inclement weather or rain. Higher humidity or lower temperatures will slow the dry time.

THICKNESS 90 mils (WET). First, mask off the area where the liquid rubber walkway is to be installed. Then pour/spread walkway liquid rubber onto masked off area. Next, firmly press down on the material with a PHENOLIC CORE roller and spread the material evenly on the surface. Pour only enough material at one time that allows for rolling the material before it becomes tack free. Firm application pressure applied on the phenolic core roller will provide the texture and assure that the material is not being applied too thick. Be sure to apply this product at the specified coverage rate or recommended mil thickness. Too thick of an application may result in solvent entrapment or rumpling of substrates such as EPDM. Apply one gallon per 17.5 square feet per coat (one coat recommended). Always check the substrate for foreign contamination and water before coating.

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APPLICATION (CONTINUED)

SERVICE TIME Take notice of the full cure time and do not open the area to abusive use before the full characteristics of the coating is achieved. Apply when weather permits 24 hours of rain free curing.

CLEAN UP Citrus based cleaners or solvent 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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