



SPECIFIED PERFORMANCE ELASTOMERIC ROOF COATING

PRODUCT DESCRIPTION

E-las•tek #127 Solar One—6083™ Roof Coating creates a continuous protective polymer film for a variety of roof surfaces. It is specially formulated to meet the requirements of ASTM D 6083, the national standard for liquid applied acrylic roof coating.

Based on a new 100% acrylic polymer Solar One—6083 provides excellent performance over SPF foam roofing, concrete roofs, metal roofs, and most asphalt roofs. Contains internal cross-linking agents to help ensure the coating remains whiter year after year, reducing long-term energy costs and lowering roof temperatures.

Solar One—6083:

- Resistant to bacteria, fungus (including mold and algae)
- Outstanding resistance to ponding water
- Provides outstanding resistance to UV degradation
- Retains whiteness years longer
- Preserves asphalt and foam roofing materials
- Cures to a very bright, durable, low-gloss surface
- Helps to reseal roof surface and repair hairline cracks — recommend two coats
- Blister resistant
- Expands and contracts with the substrate
- Excellent low temperature flexibility, tensile strength, elongation, and resistance to weathering
- Adheres well to a variety of substrates
- Highly resistant to dirt pickup
- Environmentally safe

LIQUID APPLIED ROOFING

Solar One may be used as the topcoat over liquid applied roofing membranes to refurbish older roofs or establish new roof membranes. See our website for information.

SURFACE PREPARATION

All surfaces must be thoroughly cleaned to remove oils, gravel, granules, loose coating, chalk, dirt, rust, corrosion, efflorescence, bond-breakers, and mildew to assure coating adhesion and minimize asphalt bleed. Clean with a broom and TSP- or TSP-substitute-and-water solution (or pressure wash; rinse well; allow to dry thoroughly. Rust/corrosion may require wire brush, scraping, or sandblasting.

Roof system must be free of moisture before coating.

MINOR REPAIRS

Roof repairs must be completed before top coating. All leaks, gaps, cracks, tears, bird holes, and seams must be filled with E-las•tek #103 Crack & Joint Sealant and weak areas strengthened with embedded polyester fabric. Significant repairs must be referred to a roofing contractor.

Asphalt Roofing

Thorough washing reduces asphalt bleeding. Areas that hold water more than 48 hours must be eliminated before coating.

Metals

Rusted or corroded areas must be coated with quality protective primer after cleaning. Metal fasteners should be tightened and sealed, if necessary, with Crack & Joint Sealant. Badly worn panels should be replaced.

Foam

May be used on new or previously coated foam roofs in very good condition and with no water intrusion. Deteriorated foam, open foam, foam with evidence of water intrusion, or poor drainage should be referred to a foam contractor.

Masonry/Concrete

Must be fully cured, clean and dry. Crack & Joint Sealant should be used to fill cracks to 1/8-inch and reinforced with polyester fabric. Use professional urethane patching material for larger cracks. Bare masonry should be primed with a masonry sealer.

WARNING: Elastomeric coatings are not effective when roof deterioration is severe. If in doubt, consult a qualified roofing contractor. DO NOT apply this coating to gravel roofs or shingle roofs, manufactured home roofs, roofs with cathedral ceilings below the roof. Contact E-las•tek before applying to single-ply roofs.



APPLICATION

See *WEATHER CONDITIONS* below for ideal conditions. Wear protective clothing and eye protection. Apply by roller, spray, or brush with minimum of working. Pre-coat repairs, uncoated areas, and areas needing more protection, and allow to dry.

DO NOT THIN COATINGS WITH WATER. Surface can be recoated in four hours in warm weather.

A 1-1/4-inch nap paint roller is best for dipping coating from the pail. A 1/2-inch nap cover gives very smooth application when coating is poured onto roof surface and spread in thick coats at 20 mils wet or follow *COVERAGE* directions below.

Two topcoats (18-20 mils dry) are best for maximum durability. Always apply two or more coats in areas prone to hold standing water. Two normal coats are better than one excessively thick coat. Apply coats at 90-degree-angle to each other to minimize pinholes. Coatings are sensitive to standing water for up to 48 hours after application.

Can be spray-applied by airless pump capable of 2-3000 PSI, 1-3 GPM using a 6-31 or 8-31 reversible tip. May be diluted to the maximum rate of one quart of clean water per 5 gallons to improve sprayability.

COATING THICKNESS DETERMINES SERVICE LIFE.

Clean tools promptly with water.

COVERAGE

Coverage varies with the porosity of the substrate. Apply at 100 sq. ft. per gallon per coat. Recommend two or more topcoats, totaling 20+ mils dry for long-term durability. For single-coat applications, apply at 80 sq. ft. per gal. (approximately 10-12 mils dry thickness).

WEATHER CONDITIONS

Temperature should be over 55°F and under 105°F during application and curing period. In very hot weather, apply coating in the morning to prevent rapid drying. Normal drying time is 3 to 6 hours, longer in cool weather. Humidity affects drying time. Do not apply when there is any chance of rain, fog, frost, or dew during application or drying. See E•las•tek BULLETIN: *Cool Weather Application* at www.elastek.com.

COLORS

Bright white

SAFETY

Use in areas with good ventilation. Keep containers tightly closed when not in use. Keep away from children. Store in cool, dry place. Prevent from freezing.

SPECIFICATIONS

- 66% solids by weight
- 53% solids by volume
- Elongation approx. 250% @ 75° F
- Weathered Elongation 225%
- Viscosity is 115 KU approx.
- Tensile strength 287 lb./sq. in. @ 75° F
- Low-temperature flexibility @ -15°F — pass
- Permeance 5.12 perms
- Water Swell 6.6%
- Adhesion to SPF 4.8 lbf/in.
- Adhesion to new galvanized 4.3 lbf/in.
- Adhesion to BUR 2.0 lbf/in.
- VOC 46 g/l; packaged weight 12 lb. per gallon
- CRRC Reflectivity is 86%
- CRRC Emittance is 0.89%
- 91% Reflectivity (lab)
- Meets Dade County Requirements
- Meets California Title 24 Requirements
- Meets all D6083 Requirements
- ASTM & UL Class A Fire Rated
- Extended Service-Life Warranty Available

While the information and data contained herein are presented in good faith and believed to be reliable, they do not constitute part of our terms and conditions of sales. Nothing herein shall be deemed to constitute a warranty, expressed or implied. Data provided here is based on our best knowledge at time of printing and is subject to change. E•las•tek offers coatings to fill or coat ponding areas and to handle difficult substrates. For most current information check our website: www.elastek.com; or contact us at coatings@elastek.com or 877-352-7835.