



**#114
The SHIELD™**

REFLECTIVE ELASTOMERIC TOP COAT

PRODUCT DESCRIPTION

#114 *The SHIELD* by E-las•tek™ is based on an acrylic elastomeric polymer and is formulated to provide roof protection under harsh Southwest weather conditions.

- Extends the useful life of asphalt-based roofing materials
- Forms a durable continuous membrane that reflects most of the sun's radiation, saving building energy costs
- Provides good resistance to UV degradation
- Highly elastic coating
- Expands and contracts with thermal changes to help keep the roof surface sealed over time
- Adheres well to a variety of substrates
- Good resistance to abrasion
- Environmentally safe

The SHIELD is an economical coating that allows good coverage and is easy to roll or spray. It is ideal for top coating previously coated foam roofs, pitched roofs, trailer roofs, and most low-slope roofs. May be used on:

- low-slope composition roofs (BUR)
- white-coated roofs
- aged-galvanized steel, aged-asphalt composition, and aluminum-coated roofs
- aluminum and clay surfaces

May also be used on wood and masonry surfaces. *The SHIELD* can be applied as a self-priming coating.

The SHIELD is NOT RECOMMENDED for use on:

- application to open (uncoated) urethane foam
- commercial roofs or roofs requiring a heavy-duty coating

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/water solution, TSP substitute, or pressure wash; rinse well; allow to dry. Rust/corrosion may require wire brush or scraping.

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. Major repairs must be referred to a roofing contractor.

Asphalt Roofing

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

Metals

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

Foam

May be used on previously coated foam roofs in very good condition and with no water intrusion. Not intended for open/uncoated foam. Deteriorated foam, open foam, 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.

WARNING: *Roof coatings are not effective when roofs are badly worn or in need of repair. If in doubt, contact a roofing contractor. Most shingle roofs in good condition can be coated; call us or see our website for limitations. Coating shingles on manufactured homes and roofs over cathedral ceilings is not recommended. See our website for information on coating gravel roofs. Not all single-ply roofs are coatable. Call us before coating.*

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 unless preparing for spray application. Surface usually can be recoated in four hours in sunny, warm weather.

A 1-1/4-inch 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. Apply in thick coats at 20 mils wet or follow *COVERAGE* directions below.

Two topcoats (20-24 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

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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. Sprayed shingles must be back-rolled.

COATING THICKNESS DETERMINES SERVICE LIFE.

Clean tools promptly with water.

COVERAGE

Coverage varies with the porosity of the substrate. Apply at 80 to 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; tinting may void warranty

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

- 63% solids by weight; 48% by volume
- pH is 9-10
- Elongation exceeds 300%
- Tensile strength exceeds 300 lb/sq. in.
- VOC 55 g/l
- Packaged weight 11.5 lb. per gallon
- 85% reflectivity (lab data)

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.