



SURECRETE®



View More Info for this Product at
www.surecretedesign.com/tds/surface-prep-elasto-shield-tds.pdf

ELASTO SHEILD

ELASTOMERIC WATERPROOFING
CRACK PREVENTION MEMBRANE

DESCRIPTION

ElastoShield™ is a ready-to-use waterproofing and crack suppression elastomeric liquid membrane that provides waterproofing for all SureCrete overlay systems, both horizontal and vertical. This water borne system has no solvents and requires no catalyst, which eliminates pot-life problems. No special safety equipment or respirators are required (unless sprayed). The single component formulation may be applied by brush, roller, or airless sprayer to many construction substrates, including (but not limited to):

- Concrete & Concrete Block
- Polystyrene (including ICF)
- Plywood, OSB
- Cement Backer Boards

Although specifically created for SureCrete overlays, ElastoShield™ is also ideally suited for use with:

- Ceramic Tile
- Stone
- EFIS & Foam Applications

It provides superlative flexibility and elongation with waterproof properties that allow the span of cracks and voids in the substrate. ElastoShield™ reduces crack transmission in floors and walls and forms a continuous water-proofing barrier with outstanding adhesion. Quick dry times between coats reduce job time. Upon cure the membrane will not soften with high temperatures or become brittle with lower temperatures.

SURFACE PREP

Elasto-Shield™ is not a shortcut for poor surface preparation. The principles for surface preparation for Elasto-Shield™ are addressed with the required surface preparation for the overlay being installed.

1. **Clean:** The surface must be free of dust, dirt, oil, grease, paints, glues, sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew and other foreign matter that may serve as a bond breaker.
2. **Cured:** Any concrete must be sufficiently cured to have sufficient hydration, approximately 7 - 14 days depending on temperatures and humidity.
3. **Sound:** No system should be placed upon a substrate that is flaking, spalling, or has hibernating spalling.

TEMPERATURE / CURE

Apply when surface and ambient temperatures range between 50°F (10°C) and 90°F (32°C) and will remain that way for 72 hours. Elasto-Shield™ may receive an overlay when it will not emulsify when wetted. No standing water or wet conditions can be tolerated during application or curing of membrane.

APPLICATION

Planning Completed projects must slope to proper drain or drain completely to grade. No standing water can be tolerated. Cracks or voids in excess of 1/8" must be treated independently prior to application of membrane. Refer to SCT-22 Crack and Spall Treatment and SCT-EP Epoxy Crack Treatment TDS. Construction joints should never be

QUICK FACTS

PRODUCT NAME Elasto-Shield™

PACKAGING

3.5-gallon pail (13.25 L)
5-gallon pail (18.9 L)

COVERAGE

Varies upon substrate porosity, texture, and application method: 150 ft² per gal (14 m² per 3.8 L)

SHELF LIFE

Under normal conditions Elasto-Shield™: when kept dry and moisture free, out of direct sunlight, the shelf life of an unopened container is 1 year from the date of purchase. Storage must be under roof, off the floor, and protected from freezing. Rotate inventory to maintain product that is within limits.

bridged.

Joints, Splices, Penetrations

Sheet or panel products (e.g. plywood, OSB, polystyrene panels) require coating at all joints and splices including floor to wall junction prior to coating the "field" of the sheet or panel. Concrete floors and walls likewise require coating at their junctions prior to coating the "field". Additionally, any penetrations in the "field" likewise require prior attention.

Joints and Splices

- Utilize a ¾" (19 mm) nap roller and apply an even liberal coat of Elasto-Shield a minimum of 3" (7.6 cm) either side of the splice. A chip brush may be more effective at a wall to floor splice.
- Before membrane dries lay minimum 6" (15 cm) width polyester stitch bond material into wet membrane and smooth out, leaving no wrinkles.
- Allow product to dry completely to the touch, no longer tacky, changing from pink to red in color (approximately 1 to 2 hours.)
- Apply 2nd coat over dried membrane to create a "sandwich" of fabric.

Penetrations

- All penetrations should be flashed per industry accepted standards.
- Those portions of flashing that are to be covered by an overlay must be addressed similar to above.
- Brush Elasto-Shield onto the flashing material and extend into field.
- Overlapping strokes will provide an even film.
- Before membrane dries lay polyester stitch bond material into wet membrane and smooth out, leaving no wrinkles.
- Allow product to dry completely to the touch, no longer tacky, changing from pink to red in color (approximately 1 to 2 hours.)
- Apply 2nd coat over dried membrane to create a "sandwich" of fabric.

Main Field

After all joints, splices, and penetrations have dried completely to the touch no longer tacky (approximately 1 to 2 hours.) The field may receive its 1st coat

First Coat

- Commonly applied by 3/4" (19 mm) nap roller, creating an even coat.
- Alternatively may be applied by airless sprayer
- Equipment must be able to produce 1900—2300 psi (13,100 – 15,900 kPa) and provide an orifice size 0.025"—0.029" (.635 mm - .735 mm)
- Provide a NIOSH approved respirator to prevent inhalation of atomized particulate.
- Allow product to dry completely to the touch, no longer tacky, changing from pink to red in color (approximately 1 to 2 hours.)
- Carefully inspect membrane for any bare spots or holes.
- Fill and cover any voids or pinholes with additional material.

Second Coat

- Applies identical to first coat.
- Elasto-Shield™ may receive an overlay once it is fully cured and will not emulsify when wetted.

CLEAN-UP

ElastoShield™ can be cleaned up with soap and water before product cures.

DISPOSAL

Contact your local government household hazardous waste coordinator for information on disposal of unused product.

LIMITATIONS

- For use by trained professionals that have read the complete SDS.
- Do not use as a wear surface.
- Do not use below grade.
- ElastoShield™ is NOT allowed to freeze.
- Do not apply over wet surfaces or surfaces subject to hydrostatic pressure.
- Concrete slabs must range <75% RH.
- Never use to bridge construction joints.

WARRANTY

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufactures/seller's option. SureCrete Design Products shall not be liable for cost of labor or direct and/or incidental consequential damages. consequential damages.

WARNING

KEEP OUT OF REACH OF CHILDREN. Inhalation: Avoid prolonged breathing of airborne dust, particularly present during mixing. Use NIOSH approved respirator for nuisance if threshold limit values are unsafe. Skin Contact: Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with soap and water. Launder clothing before reuse. If symptoms persist, seek medical attention. Eyes: Wear safety eye protection when applying. Contact with eyes may cause irritation. Flush eyes with water for 15 minutes. If symptoms persist, seek medical attention.

TEST DATA

ELONGATION ASTM D-638
7—day dry 580% 7—day dry / 21 day wet 657%

PERMEABILITY ASTM E-96:
0.013

TENSILE ASTM E-96:
7—day dry 335 psi (2310 kPa)
7—day dry / 21 day wet 562 psi (3875 kPa)

PROPERTIES

Appearance	Pink
Storage Stability	1 year
Odor	Faint Ammonia
Application Temperature	40°F – 85°F (4°C - 29°C)

SAFETY DATA SHEETS (SDS)

The following are links to all available safety data sheets related to this product:

[SDS ElastoShield.pdf](#)

MANUFACTURER PART #

3.5-gallon pail (13.25 L)	SKU # 15102010
5-gallon pail (18.9 L)	SKU # 15102009