

## **LAURENCO S<sup>3</sup> (Self Stick Sheet)**

### **TECHNICAL DATA SHEET**

#### **Item #: A7800**

#### **PRODUCT DESCRIPTION**

S<sup>3</sup> is a self-adhering sheet membrane consisting of a rubberized asphalt with cross-laminated polyethylene film. The SA layer combined with the polyethylene film provide a durable, high performance waterproofing membrane. S<sup>3</sup> membrane is suitable for a number of substrates. Ambient and substrate temperatures must be a minimum of 40°F and rising. Horizontal substrates must have a minimum slope of ¼"/ft.

#### **TYPICAL APPLICATIONS**

- Vertical waterproofing at foundation locations.
- Interior applications such as mechanical rooms, kitchens, bathrooms.
- Horizontal applications with a minimum ¼ inch per foot slope and prior written approval from Laurenco.
- Compatible with construction materials such as concrete, masonry, approved sheathing, metal, approved wood. Surfaces to receive S<sup>3</sup> must be pre-treated with a layer of Laurenco Winter Grade Adhesive (A7005) approximately ¾ gallon per square or 12 wet mils. (Contact Laurenco Technical Department for other pre-treatment options that may be available).

#### **PRODUCT DATA**

Coverage Area (Approximate)	200 ft <sup>2</sup>
Roll Size	66.9" x 36"
Thickness (Nominal) mils (mm)	60 mils (1.5mm)
Weight (Approximate)	67 lbs
Rolls/Pallet	20

**PHYSICAL PROPERTIES**

<u>Test Method</u>	<u>Property</u>	<u>Value</u>
ASTM D882	Tensile strength, film, psi (kpa)	5,000 (34,474)
ASTM D412	Tensile strength, Membrane, psi (kpa)	325 (2,241)
ASTM D412	Elongation, Min %	300
ASTM E96	Permeance, Perms	0.08
ASTM D1970	Low-temperature flexibility @ -25°F (-32°C)	Pass
ASTM C836	Crack cycling at -25°F (-32°C)	Pass
ASTM D903	Peel strength, lbs/in (N/m)	9 (1.0168)
ASTM D1876	Lap adhesion, lbs/in (N/m)	9 (1.0168)
ASTM E154	Puncture resistance, min lbs (kg)	50 (22.7)
ASTM D570	Water absorption, max %	0.1
ASTM D5385	Hydrostatic resistance, head pressure, ft (m)	231 (70.4)
GSA-PBS 07121	Soil burial @ 16 weeks	Unaffected

**SUITABLE SUBSTRATES AND SURFACE PREPARATION**

Do not apply S<sup>3</sup> membrane to frozen, or damp surfaces. All substrates must be clean, dry, and free of voids, protrusions, and surface irregularities. Remove all surface contaminants such as grease, oil, dirt, debris and any curing agent residue. Care must be taken to assure the substrate below the membrane is free of all containments including dust and dirt. Membrane must be protected from UV exposure after installation. Exposure to UV will have deleterious effects on the film surface.

Pre-treatment of the substrate is required for all surfaces including but not limited to; concrete, masonry, metal, sheathing boards, metal, wood, and plywood. OSB is not an approved substrate for application. Substrate shall be pre-treated with a thin layer of Laurenco Adhesive (#7005) winter grade at the rates listed above. Adhesive can be slightly tacky or dry. Treated surfaces are to be covered the same day. Areas not covered in the same day will require an additional application of Laurenco Adhesive (#7005). Rate of adhesive pre-treatment will vary depending upon substrate and substrate porosity. Approximate rate will be ¾ gallon per square or 12 wet mils.

## INSTALLATION INSTRUCTIONS

- S<sup>3</sup> membrane may be installed in both vertical and horizontal applications provided product conditions are acceptable.
- Install membrane so all laps shed water (shingle fashion). Water drainage parallel to laps is acceptable for certain applications. Stagger all end laps a minimum of 3 feet and offset side laps a minimum of 18 inches.
- Assure both ambient and substrate temperatures are 40°F and rising.
- Unroll and allow membrane to relax for a minimum of 15 minutes. Cut rolls into workable lengths suitable to the project conditions.
- Place the material in a straight uniform manner. After placement, remove release film and roll the material utilizing an 80lb minimum split-face metal roller or water filled lawn roller to assure full bond to the underlying substrate. Roll entire surface of the membrane.
- Apply Laurenco Butyl Tape set in a thin layer of Laurenco Adhesive at all substrate transitions, angle changes, penetrations and laps at surface transitions.
- Use appropriate drainage panels for applications subjected to hydrostatic pressure and all horizontal applications. Assure proper drainage is used at the base of vertical walls to move water away from the building. Use of Laurenco Protection Sheet or Approved protective insulation at all areas where backfill is anticipated. Backfill should be completed in lifts of maximum 2 to 3 feet allowing for proper compaction of backfill. 300 Series Stainless Steel Termination bar fastened at 8" on center maximum with appropriate fasteners, is to be used at the top termination of vertical sheets. Termination bar is to be completely encapsulated with Laurenco Trowel Grade Adhesive or Laurenco AWS.
- Membrane repairs, if required, are to be completed using a S<sup>3</sup> patch applied over the damaged area utilizing Laurenco Adhesive prior to the patch being placed. Repair patches are to extend beyond damaged area(s) a minimum of 6 inches in all directions.