

Product Description

Si750 is a single-component, high-solids silicone roof coating engineered to form a durable, breathable, and watertight barrier with excellent resistance to weathering. It can be applied over spray polyurethane foam (SPF), EPDM, aged PVC, aged acrylic coatings, concrete, asphalt built-up roofing (BUR), granulated modified bitumen (when properly prepared and primed as required), and metal roofing systems.

Recommended Uses

Si750 is a high-performance protective coating designed for most roofing membranes. It provides strong adhesion to unprimed TPO, PVC, and EPDM, while delivering excellent performance over properly primed cap sheet and modified bitumen membranes.

Product Data

Physical Property	Typical Value	Test Method
Solids by Weight	98%	ASTM D 1644
Solids by Volume	96%	ASTM D 2697
Weight Per Gallon	10.4 lbs	ASTM D 1475
Theoretical DFT at 1 gal/100 ft ²	15.4 mils	
Tensile Strength	220 psi	ASTM D 2370
Elongation	275%	ASTM D 2370
Tear Strength	>22 lbf/in	ASTM D 624
Permeance	6.0 perms	ASTM E 96
Reflectivity - Initial	.86	ASTM C 1549
Reflectivity - Aged	.73	ASTM C 1549
Emissivity	.92	ASTM C 1371
SRI	110	ASTM E 1980
VOC	< 45 g/l	EPA Method 24
Flash Point	145°F	ASTM D 56

**Typical physical properties +/- 5%.*

Packaging/Shipping

CONTAINER SIZE	SHIPPING CLASS
55 Gallon drum	Class 55
5 Gallon pail	Class 55
1 Gallon pail	Class 85

Surface Preparation

General: Before applying Si750, ensure the substrate is clean, dry, and free of dust, dirt, oil, loose granules, peeling coatings, and other contaminants that may interfere with adhesion. Power washing and priming may be required to achieve proper adhesion.

Shelf Life

Store in the original unopened container for up to 24 months from the manufacture date, between 40-85°F.

Color Options

White, Gray, Tan, and Custom Colors

Application

Apply Si750 by brush, roller, or spray to a clean, dry surface. Refer to the Equipment Recommendations section at the end of this sheet for additional details. Coat polyurethane foam within 24 hours of application.

Apply Si750 in a uniform coat. If a second coat is required, apply it in multiple directions within 48 hours of the first coat for best results. Each coat must be even and free of pinholes.

Allow each coat to dry and cure completely before applying the next coat. If the cured surface becomes contaminated, wash it and allow it to dry completely before recoating.

Equipment Recommendations

Brush

Use a brush with synthetic filaments.

Roller

Use a 1¼-inch nap roller.

Spray Equipment

All components must be rated for the required pump pressures.

- High-pressure airless sprayer rated at a min. of 6,500 psi
- Continuous output of at least 2.5 gallons per minute
- 5:1 transfer pump to help prevent cavitation
- Reversible, self-cleaning spray tip
- 0.030-inch tip orifice
- Spray fan angle of 40° to 50°
- High-pressure spray gun rated to 7,000 psi
- Hose rated for at least twice the maximum pump pressure
- BUNA-N-jacketed hose
- Minimum ¾-inch hose diameter, with the largest diameter positioned at the pump

Do not use a hose that has been used for acrylics. The liner will absorb moisture and start the silicone cure process.

Coverage Rate

Apply a uniform coat of Si750 at a rate of 1.5 gallons per 100 square feet. Coverage rates may vary. Refer to the applicable SESCO Guide Specification for project-specific requirements.

Safe Practices

This product is for professional installation only. Before use, read and understand all available information on its risks, proper use, and handling. Sources include but are not limited to SDS and product labels.

Additional resources are available at sescoroof.com, or by contacting SESCO directly.

Clean Up

Clean spray equipment containing uncured Si750 by flushing it with VM&P naphtha or mineral spirits. Si750 cures through a reaction with moisture and should not remain in spray guns, pumps, or hoses for extended periods unless the equipment is fitted with moisture-lock hoses, fittings, and seals.

Without moisture-lock components, the material may cure along hose walls and at unsealed connections, potentially increasing operating pressure and restricting material flow.

Environmental Conditions

Do not apply Si750 when the ambient temperature is below 40°F. Application is not recommended when rain or dew is expected before the coating has fully dried.

Limitations

The surface must be clean and dry before applying Si750. Do not apply the coating over wet substrates or when inclement weather is imminent. Si750 is not recommended for use on cryogenic tanks, cold-storage roofing systems without a vapor barrier, or directly over modified bitumen or asphalt without an appropriate primer.