

Product Description

Si710 is a single-component silicone roof coating built for long-term exposure. Once cured it forms a durable, breathable, watertight membrane that holds up to weathering, ponded water, and UV without chalking or breaking down over time. The formulation combines high-performance inorganic silicone resins with select fillers, reflective pigments, and silane adhesion promoters, producing a coating system engineered for the demands of commercial roofing.

Recommended Uses

Si710 works as a protective coating over most commercial roof membranes. It adheres strongly to SPF, EPDM, aged PVC, aged acrylic, concrete, and metal, and it performs well over primed BUR, modified bitumen, and TPO.

Product Data

Physical Property	Typical Value	Test Method
Viscosity	30,000 cps	ASTM D 2196
Solids by Weight	81%	ASTM D 1644
Solids by Volume	71%	ASTM D 2697
Weight Per Gallon	10.2 lbs	ASTM D 1147
Dry Film Per Gallon	11 mils	SSPC-PA 2
Tensile Strength	300 psi	ASTM D 2370
Elongation	550%	ASTM D 2370
Tear Strength	29 lbf/in	ASTM D 624
Flash Point	103°F	ASTM E 56
Reflectivity - Initial	.83	ASTM C 1549
Reflectivity - Aged	.72	ASTM C 1549
Emissivity	.89	ASTM C 1371
SRI	106	LEED
VOC	<220 g/L	EPA 24

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

Packaging/Shipping

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

Surface Preparation

General: The substrate must be dry and clear of dust, dirt, oil, loose granules, peeling coatings, and any other contaminant before Si710 goes down. Power washing and priming may be required to achieve proper adhesion.

Shelf Life

Stored unopened in its original container between 40°F and 85°F, Si710 holds a shelf life of 24 months from the date of manufacture.

Color Options

White

Application

Mix well before use. Apply by brush, roller, or spray onto a clean, dry surface. See Equipment on this sheet for the minimum requirements. Spray polyurethane foam should be coated within 24 hours of the foam being applied.

Apply Si710 in two or three separate passes, each pass at right angles to the one before it. Every coat must be even and free of pinholes.

Let each coat dry and cure fully before the next one goes on. If the cured surface picks up any contamination, wash it and let it 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.

- Airless sprayer rated at 6,500 PSI minimum
- Continuous output of 2.5 gallons per minute or more
- 5:1 transfer pump to prevent cavitation
- Spray tip: reversible self-cleaning type, 0.030 orifice, 40° to 50° fan angle
- Spray gun rated for 7,000 PSI
- Hose rated to twice the maximum pump pressure
- BUNA-N jacketed hose
- Hose lengths: (largest diameter at pump) 3/4 min

Do not run Si710 through a hose that has carried acrylics. The liner holds moisture and will start the silicone curing.

Coverage Rate

Apply Si710 in a uniform coat at 1.5 gallons per 100 square feet. Coverage varies with site conditions; refer to the SESCO Roofing Products Guide Specification for your project.

Safe Practices

Si710 is for professional installation only. Before using it, read and understand the available information covering its risks, proper use, and handling. That includes the safety data sheet and the product label, and is not limited to them.

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

Clean Up

Flush uncured material out of spray equipment with Naphtha VM&P or mineral spirits. Si710 cures by reacting with moisture, so do not leave it standing in spray guns, pump equipment, or hoses for extended periods unless that equipment uses moisture lock hoses, fittings, and seals. Without them the material cures on hose walls and at unsealed connections, driving up operating pressure and restricting material flow.

Environmental Conditions

Do not apply Si710 when the ambient temperature is below 40°F. Application is not recommended when rain or dew is likely before the product dries.

Limitations

The surface must be clean and dry. Do not apply over wet substrates or with inclement weather imminent. Si710 is not recommended for cryogenic tanks, for cold storage roofing without a vapor barrier, or directly over modified bitumen or asphalt without a primer.