

PS#250.1

High Solids 100% Silicone 92% Solids Elastomeric Roof Coating (FR)

Description

PS#250.1 is a ready to use, solvent-free, high solids, single component, moisture cure fluid-applied silicone coating. When cured, PS#250.1 forms a breathable membrane possessing superior weathering and water resistance characteristics.

Uses

Designed for use on existing smooth surface BUR, granulated cap sheets, well adhered acrylic coatings, concrete, metal, sprayed in place polyurethane foam (SPUF) and various single-ply roofing membranes. Primer may be required. Contact KM Coatings Technical Services for clarification of unusual surfaces or project conditions.

Standard Colors

PS#250.1 is available in white, light grey, dark grey, and tan.

Packaging

5GA pail, 55GA drum

Codes and Standards

Meets or exceeds the requirements of ASTM D6694 Standard Specification For Liquid-Applied Silicone Coating

ENERGY STAR® Certified (White only)

CRRC Listed (White only)


NSF Protocol P151 - Health Effects from Rainwater Catchment System Components. See listing at www.nsf.org for application and cure instructions for rainwater catchment use.



Typical Physical Properties (ASTM D6694)

1. **Tensile Strength** 247 PSI, ASTM D412
2. **Elongation (Break)** 237%, ASTM D412
3. **Permeability** 10.7, ASTM E96
4. **Tensile, set @ 100% Elongation** Nil.
5. **Temperature Stability Range** -35°F to 212°F, (-37°C to 100°C)
6. **Weathering / UV Resistance** No degradation after 5,000 hours, ASTM D6694
7. **Specific Gravity** 1.24 @ 77°F (25°C)
8. **Tack Free Time** 1–2 hours, temperature and humidity dependent
9. **Durometer Hardness** 37 (±5), Shore A ASTM D2240
10. **Solids Content by Volume** 92% (±3), ASTM D2697
11. **Flash Point** >141°F
12. **Cure Time** 1–4 hours
13. **VOC:** <50 gm/L, Std. Method
14. **Initial Solar Reflectivity** 89, ASTM C1549
15. **Initial Thermal Emissivity** 90, ASTM C1371
16. **SRI Value** 113

Refer to Safety Data Sheet (SDS) for specific data and handling of our products.

	Initial	Weathered
 COOL ROOF RATING COUNCIL ®	Solar Reflectance 0.89	0.73
	Thermal Emittance 0.90	0.88
	Rated Product ID Number	0754-0016
	Licensed Seller ID Number	0754
	Classification	Production Line

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

Solar Reflectance Index (SRI) – Initial 113 : Weathered 90

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Application Instructions

Surface Preparation:

Surfaces to be coated with PS#250.1 must be properly prepared. All surfaces must be clean dry and free of loose particles.

Application:

Stir well prior to application.

PS#250.1 is recommended to be applied with high pressure sprayer for best appearance and coverage. It may also be applied by roller or brush applications.

PS#250.1 can be applied in excess of 40 mils in a single coat without blistering, while maintaining maximum adhesion.

Personal Protection

Odors and Mists - Avoid breathing silicone odors and spray mists. Use an appropriate MESA/NIOSH approved respirator when exposure can exceed recommended PEL. Additional care must be taken to prevent roof top HVAC equipment from introducing silicone odors into interior areas during application.

Waste Disposal - Empty containers must be disposed of in accordance with local, state and federal regulations.

For Professional Use Only - Keep out of reach of children. This product is not recommended for interior use.

Installers should exercise caution during spray processes to avoid falls caused by stepping into slippery coating. Installers should read and understand all technical and informational literature on this product, including the SDS, prior to use of the product.

Storage and Cleaning

Shelf life is 24 months if stored in original unopened containers.

All containers should be sealed when not in use.

Keep from freezing.

Store between 40°F and 100°F

Observe normal safeguards for storing and handling of this product prior to and during application.

Clean equipment and overspray with water.

Clean hands with waterless hand cleaner.

Application tools and equipment can be cleaned with lukewarm water and soap, followed by a rinse of isopropanol, acetone, or Simple Green™. Recirculate through lines and gun until residual coating is removed.

DO NOT USE MINERAL SPIRITS, XYLENE, TOLUENE, OR VMP & NAPHTHA SOLVENTS.

Application Equipment

This product may be sprayed, brushed, or rolled. Due to the high viscosity of the material, a high-pressure airless paint pump capable of producing a minimum of 3500 PSI at the spray gun head should be used. The pump should have a minimum of 3 gallons per minute output. Always use components rated for pump pressure. Hoses should be BUNA-N jacketed for prevention of moisture contamination. Hoses should have a minimum I.D. of 3/4" and an adequate working pressure. The spray gun should be high pressure (5000 PSI) with reverse-a-clean spray tip, having a minimum orifice of .030 and a 50° fan tip.

DO NOT USE hose that has been used for Acrylics or other waterborne coatings because the liner absorbs moisture and initiates the silicone cure process.

Ponding Water

The chemistry of silicone, which KM Silicone roof coatings are manufactured with, is not adversely affected by ponding water or prolonged rain exposure. Please be advised that good roofing practices, Building Codes and The National Roofing Contractors Association (NRCA) consider ponding water on any roof undesirable and recommend that all roof systems be designed and built to ensure positive drainage (See the NRCA Roofing and Waterproofing Manual and any applicable Code Ordinances).

Warranty

KM Coatings manufactures a variety of fluid-applied materials to suit various project needs and offers extended manufacturer's warranties to its Approved Applicator network. Warranty type, Terms and Conditions, as well as coverages, will depend on product(s) utilized and project circumstances under which materials are used. Unless otherwise provided for as part of an extended manufacturer's warranty, Product Liability is strictly limited to manufacturing defects for a period of one year.

KM Coatings

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Refer to SDS for specific data and handling of our products.

All data furnished refers to standard production using manufacturing testing tolerances. The product user, and not KM Coatings, is responsible for determining the suitability and compatibility of our products for the user's intended use.