

PS #250.1

High Solids 100% Silicone Elastomeric Roof Coating (FR)

DESCRIPTION

PS #250.1 is a ready to use, solvent-free, single component, moisture cure fluid-applied silicone coating with an average of 92% solids. 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.

TYPICAL PHYSICAL PROPERTIES (ASTM D6694)

Tensile Strength (psi)	247	ASTM D412
Elongation (Break) (%)	237	ASTM D412
Permeability	10.7	ASTM E96
Tensile, set @ 100% Elongation	Nil.	
Temperature Stability Range	-35°F to 212°F, (-37°C to 100°C)	
Weathering / UV Resistance	No degradation after 5,000 hours	ASTM D6694
Specific Gravity	1.24 @ 77°F (25°C)	
Tack Free Time	1–2 hours, temperature and humidity dependent	
Durometer Hardness	37 ±5	Shore A, ASTM D2240
Solids Content by Volume (%)	92 ±3	ASTM D2697
Flash Point	> 141°F	
Cure Time	1 – 4 hours	
VOC	< 50 gm/L	Std. Method

CODES AND STANDARDS

- Meets or exceeds the requirements of ASTM D6694 Standard Specification For Liquid-Applied Silicone Coating
- UL Classified - File #R20755
- Can be used to comply with 2016 Title 24 Part 6 Cool Roof Requirements (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.




PACKAGING

5GA pail, 55GA drum

STANDARD COLORS

PS #250.1 is available in white and light grey. PS #250.1 in white, is highly reflective and exceeds the minimum standards for California Title 24 reflectivity and emissivity.

 COOL ROOF RATING COUNCIL®	Rated Product ID #: 0754-0016	
	Smooth	Rough
	Initial / Aged	Initial / Aged
Solar Reflectance	0.89 / 0.73	Not Rated
Thermal Emissance	0.90 / 0.88	Not Rated
<small>The ratings above are subject to CRRC rating program conditions, requirements and limitations. Visit coolroofs.org for important information and disclaimers about CRRC rating requirements and limitations. For the purposes of a CRRC rating, a rough substrate is defined as a surface that is equally coarse or coarser than a new (i.e., unweathered) #11 granulated modified bitumen sheet.</small>		

Solar Reflectance Index (SRI) – Initial: 113 • Aged: 90



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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).

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.

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.

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.

For Professional Use Only — Keep out of the reach of children.

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.

