

Meets the requirements of ASTM D 6694

## Features and Components

**Use:** JM Coating Silicone is designed for use over a variety of substrates, including built-up, modified bitumen, and aged mechanically attached or adhered TPO and EPDM membranes.

**Type:** One-part, high-solids.

**Color:** White

**Features:** Silicone durability and performance.  
Energy savings.  
Prolonged roof life.  
Cool roof solution.



Component

<b>L</b>
Liquid
<b>CO</b>
Coating

Type

<b>M</b>
Membrane
Multi-Ply
Single Ply

**System Compatibility** This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP*		SBS			
	HA	CA	CA	HW	HA	CA	HW	SA
Compatible with all Multi-Ply systems *APP cap sheet only								

Single Ply	TPO				PVC			EPDM		
	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
TPO & EPDM requires JM Coating Single Ply Primer										

**Key:** HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened IW = Induction Weld BA = Ballasted AD = Adhered

## Energy and the Environment

Color	Solar Reflectance		Thermal Emittance		SRI	
	Initial	3 Year	Initial	3 Year	Initial	3 Year
White	0.90	0.76	0.90	0.88	114	94

## Physical Properties

Property*	JM Coating Silicone	
Physical	Solids by Volume	98% +/- 2%
	Solids by Weight	98% +/- 2%
	Weight	11.0 lb/gal (1.4 kg/l)
	Durometer Hardness	55 ± 5 pts
	Density	1.42 g/l
	Viscosity	6,000-7,000 cps @ 77°F (25°C)
	VOC Content	< 10 g/L
Performance	5,000 hr Accelerated Weathering	no cracking or checking
	Tensile Strength	275 psi (1.9 MPa)
	Elongation	425%
	Dry Adhesion	8.5 pli
	Wet Adhesion	4.5 pli
	Tear Resistance (ASTM D624)	37 lbf/in
	Permeance (ASTM E96 perms)	4 perms
Water Swelling Absorption (ASTM D471)	0.1% after 2 weeks @ 75F	

\*Tested in accordance to ASTM D 6083



## Codes and Approvals



Refer to the Safety Data Sheet and product label prior to using this product. The Safety Data Sheet is available by calling (800) 922-5922 or on the Web at [www.jm.com/roofing](http://www.jm.com/roofing).

## Installation/Application



Notched Squeegee



Back Roll

- Apply when temperature is 40°F (4°C) and rising.
- JM Coating Silicone must be used in conjunction with JM Universal Base with modified systems.
- JM Coating Single Ply Primer is required with TPO and EPDM systems as a base coat prior to the application of the JM Coating Silicone.
- Please refer to detailed installation instructions on next page.

## Packaging and Coverage

Container Sizes	5 gal (18.9 l) pail	55 gal (208 l) drum
Shipping Weight (approx.)	58 lbs (25.4 kg)	642 lb (291 kg)
Coverage Rate*	5 Year	10 Year
over BUR/SBS/APP Cap	1.50 gal/sq. Universal Base 1 coat @ 2.0 gal/sq. Silicone	4.0 gal/sq. Universal Base Fabric 1 coat @ 2.5 gal/sq. Silicone
over EPDM and TPO	0.25 gal/sq. Primer 1 coat @ 2.5 gal/sq. Silicone Spot repair and flashings	0.25 gal/sq. Primer 1 coat @ 4.0 gal/sq. Silicone Repair Tape all seams and flashings

\* Reference JM Coating application guide for full system coverage requirements. If FM Global® or UL® approval is required, consult specific RoofNav<sup>SM</sup> or the UL Certifications Directory for specific application rates.

## Storage

Shelf Life	12 months from manufacture date (unopened pail)
Storage Conditions	Clean, dry, indoor environment in an unopened or tightly sealed container
Temperature Range	40°F – 85°F (4°C – 29°C) Protect from freezing

## Installation/Application Instructions

### Preparation:

- A peel adhesion test (test patches) is required per JM Technical on all membrane substrates prior to application of coating, primer, or flashing material.
- All surfaces must be clean, dry, and free of dirt, grease, oil, or other contaminants that would interfere with proper adhesion.

### Application:

- JM Coating Universal Base is required as the primary layer on all JM Coating Silicone systems over asphaltic substrates.
- JM Single Ply Primer is required prior to application of JM Coating Silicone.
- Single Ply membranes needs to age for one year prior to application.
- Do not thin
- On modified systems apply over JM Coating Universal Base embedded in JM Coating Reinforcing Fabric.
- Apply with a squeegee and back roll.
- Apply a uniform coat over entire surface, avoiding excessive rolling.
- If multiple coats are used, apply additional coats between 4-24 hours after first coat.
- Clean-up: Clean equipment with Naptha.

### Cold Weather & Curing Conditions:

#### Application:

- If surface temperatures become hot (over 140° F / 60° C) during application, wait for roof to cool.
- The contents of this container are reactive with moisture in the air. Take special precautions to ensure there is NO MOISTURE, DEW or FROST present on the roof.
- Application should be completed when air, surface and material temperatures are 40°F (4° C) or higher (for 24 hours) but not above 110°F (43° C).
- Apply only when weather conditions will permit drying before rain, dew or freezing temperatures. Do NOT apply if rain or freezing temperatures are predicted within 24 hours.
- Cool temperatures and low humidity retard cure.
- Coating dries in 6-8 hours\*  
-Coating fully cures in 24-48 hours\*
- Curing starts immediately upon opening and opened product cannot be returned. Use all contents within one day of opening.

\*70°F (21° C) and 50% relative humidity at 2.5 gallons per square.

\* Please note when walking on a silicone coated system as it can be slippery.

## Precautions

*Avoid prolonged contact with skin • Avoid contact with eyes • Do not take internally • Keep container closed when not in use • Keep out of reach of children.*