

Features and Components

- Use:** JM PMMA Field Resin is part of a two-component, fast-curing, polymethyl-methacrylate (PMMA) system for roofing and waterproofing application. It is combined with JM PMMA Catalyst and JM PMMA Scrim to form a monolithic reinforced membrane.
- Type:** One part of a two-part, elastomeric, liquid-applied membrane.
- Color:** White or Grey
- Features:** Elastomeric and monolithic.
 Suitable for ponding water areas.
 UV stable, high solids, VOC compliant.
 Available in Summer and Winter Grade.
 May be combined with JM PMMA Thixo for use on vertical flashings.



Component

L
Liquid

Type

M
Membrane
Multi-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	MF
<i>Compatible with the selected Multi-Ply systems above</i>									

Single Ply	TPO			PVC		EPDM		
	MF	AD	SA	MF	AD	MF	AD	BA
<i>Do not use in Single Ply systems</i>								

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

Energy and the Environment

Maximum VOC (as applied)	2.3 g/l
This product may be used in jurisdictions limiting VOC (volatile organic compounds) content of single ply roofing adhesive to no greater than 250 g/l.	

Peak Advantage® Guarantee Information

Systems	Guarantee Term
Any JM SBS or BUR roofing system. JM PMMA Membrane system.	Up to 20 years*

*Contact JM Technical Services for specific system requirements or guarantee terms.

Codes and Approvals



Precautions

Handling Refer to product Safety Data Sheet (SDS) for additional information pertaining to this product and prior to use or handling. Roofing contractors must advise their crews to precisely follow all safety, storage, handling, preparation and application instructions. JM will not accept responsibility for any use of this product that does not comply with the instructions printed on the containers.

Installation/Application



Long Nap Roller

Notched Squeegee

- Apply Summer Grade between 37° and 95° F (3° and 35° C)
- Apply Winter Grade between 23° and 68°F (-5° and 20°C)
- Please refer to the Mixing and Catalyzing instructions on the back side of this data sheet.
- Please refer to JM PMMA application instructions.

Packaging and Coverage

Container Sizes	25 kg pail
Coverage Rate*	90 ft ² (8.36m ²)

*Coverage, open and dry time rates can vary dramatically depending on the particular substrate and environmental conditions. Coverage rates stated herein are approximate only. If FM Global® or UL® approval is required, consult specific RoofNavSM or the UL Certifications Directory for specific application rates.

Storage

Shelf Life	12 months from manufacture date
Storage Conditions	Clean, dry, indoor environment in an unopened container
Temperature Range	32°F – 77°F (0°C – 25°C) - Protect from freezing

Physical Properties

Property	ASTM Test Method	JM PMMA Field Resin
Membrane Thickness	ASTM D 5147 Sec 5	2.9 mm (115 mils)
Peak Load @ 23°C (73°F) avg.	ASTM D 5147 Sec 6	12.3 kN/m (70 lbf/in)
Elongation @ Peak Load, avg.	ASTM D 5147 Sec 6	42%
Peak Load @ 23°C (73°F) avg.	ASTM D 412 (dumbbell)	15.8 kN/m (90 lbf/in)
Elongation @ Peak Load, avg.	ASTM D 412 (dumbbell)	55%
Shore A Hardness, avg.	ASTM D 2240	81
Water Absorption, (Method I) (24h @ 23°C (73°F))	ASTM D 570	0.41%
Water Absorption, (Method II) (48h @ 50°C (122°F))	ASTM D 570	1.57%
Low Temperature Flexibility	ASTM D 5147 Sec 11	-25°C (-13°F)
Dimensional Stability (maximum movement)	ASTM D 5147 Sec 10	-0.063%
Tear Strength	ASTM D 5147 Sec 7	0.5 kN (107 lbf)
Tensile Strength	ASTM D 412	5.7 mPa (817 psi)

Values based on 90 mil (2.3mm) thick reinforced PMMA membrane.

Mixing and Catalyzing

Thoroughly mix the entire drum of resin for 2-3 minutes before each use, and prior to pouring off resin into a second container if batch mixing. Catalyze only the amount of material that can be used within 10-15 minutes. Add pre-measured catalyst to the resin component, stir for 2-minutes using a slow-speed mechanical agitator (200-400 rpm) or stirring stick.

Summer Grade

Catalyst per 25 kg Unit		
Ambient Temperature	59°F - 64°F (15°C - 18°C)	64°F - 104°F (18°C - 40°C)
Catalyst	10 (0.1 kg) packets	5 (0.1 kg) packets
Working Times (at 68°F (20°C))		
Pot Life	approx. 15 minutes	
Rainproof	approx. 30 minutes	
Next Coat	approx. 1 hour	
Fully Cured	approx. 3 hours	

Winter Grade

Catalyst per 25 kg Unit		
Ambient Temperature	23°F - 49°F (-5°C - 10°C)	50°F - 68°F (10°C - 20°C)
Catalyst	10 (0.1 kg) packets	5 (0.1 kg) packets
Working Times (at 68°F (20°C))		
Pot Life	approx. 20 minutes	
Rainproof	approx. 45 minutes	
Next Coat	approx. 1 hour	
Fully Cured	approx. 6 hours	

The times noted above are approximate, provided as a guideline, and may vary. Actual set times and cure should be established in the field based on actual field conditions.

Clean-Up and Disposal

Clean-Up Information

When work is interrupted or completed, tools must be thoroughly cleaned before the resin hardens.

Disposal Information

For disposal instructions, please refer to the safety data sheet.