

## Features and Components

**Use:** JM Roofing System Urethane Adhesive is a two-component polyurethane adhesive used for attaching fleece-backed single ply membranes to insulation boards or various deck types as well as insulation boards to the roof deck or to other insulation boards.

**Type:** Two-part, cold application insulation adhesive.

**Substrates:** Compatible with the following insulations, cover boards, and substrates<sup>1</sup>: polyisocyanurate; HD wood fiber; perlite; Invinsa<sup>®</sup> Roof Board; gypsum; concrete<sup>2</sup> (*Lightweight structural, poured-in-place structural, precast, and insulating*); treated plywood (*5/8" [1.58 cm] min. thickness*); cementitious wood fiber; gypsum; smooth or granulated BUR, APP or SBS.

1. Ensure that all insulation boards are 4' x 4' or smaller.
2. Ensure that the concrete is adequately dry for adhesion.

**Color:** Part 1 - Brown, Part 2 - Colorless, Combined/foamed adhesive - Light Amber

**Features:** Solvent free, and HCFC or CFC free.  
Universal adhesive for adhering fleece-backed membranes and insulation boards.  
Sets in minutes.

Component

**AD**  
Adhesive

Type

**I**  
Insulation

**B**  
Cover Board

Multi-Ply  
Single Ply

**M**  
Membrane

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	HW	HA	CA	HW	SA	MF
<i>Used to adhere insulation in all multi-ply systems*</i>								

Single Ply	TPO				PVC			EPDM		
	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
<i>Used to adhere insulation in all single ply systems**</i>										

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

\* For smooth modified membranes contact JM Technical Services for specific approval. \*\* May also be used to adhere fleece-backed TPO and PVC Membranes to Insulation and Cover Boards.

## Energy and the Environment

Maximum VOC	32 g/l as applied after mixing (EPA method 24)
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## Physical Properties

Property		ASTM Test Method	JM Roofing System Urethane Adhesive
Weight (liquid components)	Part 1	—	10.18 lb/gal (1.2 kg/l)
	Part 2	—	8.34 lb/gal (1.0 kg/l)
Viscosity (liquid components)	Part 1	—	250 cps
	Part 2	—	370 cps

## Codes and Approvals



## Precautions

**First Aid** – In case of contact with eyes, immediately flush eyes with running water for at least 15 minutes. Call a physician immediately. In case of contact with skin, wash affected area with soap and water. Remove all contaminated clothing and shoes. Wash clothing before reuse and discard contaminated shoes. If swallowed, drink large amounts of water to dilute. If vomiting occurs, drink more water and call a physician immediately.

**Environmental Hazard** – PMDI in Part 1 component may cause pollution. Do not discharge into lakes, streams, ponds or public waters. For guidance, contact your regional office of the U.S. Environmental Protection Agency.

**Disposal** – Neutralize and dispose of spilled material, unused contents and empty containers in accordance with local, state and federal regulations.

**Safety** – Wear proper clothing and safety equipment.

## Installation/Application



Bead

- Apply when ambient temperature is 25°F (-3.9°C) and rising.
- Ensure all insulation boards are 4' x 4' (1.22 m x 1.22 m) or smaller.
- Ensure all surfaces are dry and free of any debris, dirt, oil and grease before using JM Roofing System Urethane Adhesive.
- Refer to the application instructions and guidelines for proper utilization and coverages rates of this adhesive.

## Packaging and Coverage

	Container Type			
	Cartridges	5 gal (18.9 l) Boxes	15 gal (57 l) Drums	50 gal (189 l) Drums
Items per Case/Set*	4 per case with 5 mixing tips	1 Set with 5 mixing tips	1 Drum	1 Drum
Shipping Weight (approx.)	20 lb (9 kg)	Part 1 = 54 lb (24.5 kg) Part 2 = 46 lb (21 kg)	Part 1 = 155 lb (70 kg) Part 2 = 132 lb (60 kg)	Part 1 = 552 lb (250 kg) Part 2 = 472 lb (214 kg)
Cases/Sets per Pallet	48 Cases	18 Sets	4 Sets	2 Sets
Coverage	See tables on back page			

\* A set is defined as an equal Part 1 and Part 2.

## Storage

Shelf Life	18 months from manufacture date
Storage Conditions	Clean, dry, well-ventilated indoor environment in an unopened container. 24 hours prior to use, store between 60°F (16°C) and 85°F (29°C).
Temperature Range	45°F to 95°F (7°C to 35°C) - Protect from freezing

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).

## Coverage – Fleece Backed Membranes

Bead spacing: 12" o.c. • Applied bead size: ¾" min.

Packaging	Typical Coverage Rates*		
	per package	ft <sup>2</sup> /gal	gal/100 ft <sup>2</sup>
Cartridge	600 ft <sup>2</sup> /case	189	0.4
5 gal box	2,500 ft <sup>2</sup> /set**	250	
15 gal drum	7,500 ft <sup>2</sup> /set**		
50 gal drum	25,000 ft <sup>2</sup> /set**		

Bead spacing: 6" o.c. • Applied bead size: ¾" min.

Packaging	Typical Coverage Rates*		
	per package	ft <sup>2</sup> /gal	gal/100 ft <sup>2</sup>
Cartridge	300 ft <sup>2</sup> /case	94	1.1
5 gal box	1,250 ft <sup>2</sup> /set**	125	0.8
15 gal drum	3,750 ft <sup>2</sup> /set**		
50 gal drum	12,500 ft <sup>2</sup> /set**		

Bead spacing: 4" o.c. • Applied bead size: ¾" min.

Packaging	Typical Coverage Rates*		
	per package	ft <sup>2</sup> /gal	gal/100 ft <sup>2</sup>
Cartridge	200 ft <sup>2</sup> /case	63	1.59
5 gal box	833 ft <sup>2</sup> /set**	83	1.2
15 gal drum	2,500 ft <sup>2</sup> /set**		
50 gal drum	8,333 ft <sup>2</sup> /set**		

## Coverage – Board Stock

Bead spacing: 12" o.c. • Applied bead size: ½" - ¾" min.

Packaging	Typical Coverage Rates*		
	per package	ft <sup>2</sup> /gal	gal/100 ft <sup>2</sup>
Cartridge	600-800 ft <sup>2</sup> /case	189-252	0.33-0.4
5 gal box	2,500-3,000 ft <sup>2</sup> /set**	250-300	
15 gal drum	7,500-9,000 ft <sup>2</sup> /set**		
50 gal drum	25,000-30,000 ft <sup>2</sup> /set**		

Bead spacing: 6" o.c. • Applied bead size: ½" - ¾" min.

Packaging	Typical Coverage Rates*		
	per package	ft <sup>2</sup> /gal	gal/100 ft <sup>2</sup>
Cartridge	300-400 ft <sup>2</sup> /case	94-126	0.8-1.1
5 gal box	1,250-1,500 ft <sup>2</sup> /set**	125-150	0.66-0.8
15 gal drum	3,750-4,500 ft <sup>2</sup> /set**		
50 gal drum	12,500-15,000 ft <sup>2</sup> /set**		

Bead spacing: 4" o.c. • Applied bead size: ½" - ¾" min.

Packaging	Typical Coverage Rates*		
	per package	ft <sup>2</sup> /gal	gal/100 ft <sup>2</sup>
Cartridge	200-266 ft <sup>2</sup> /case	63-84	1.19-1.59
5 gal box	833-1,000 ft <sup>2</sup> /set**	83-100	1.0-1.2
15 gal drum	2,500-3,000 ft <sup>2</sup> /set**		
50 gal drum	8,333-10,000 ft <sup>2</sup> /set**		

\* Coverage rates are approximate and may vary based on substrate type and application. Approved substrates include structural concrete decks, JM Vapor Barrier SA, ENRGY 3, RetroPlus, DuraBoard, Invinsa, Securock, DensDeck, DensDeck Prime, smooth modified asphalt membranes and granulated asphalt membranes. Please contact JM Technical Services for other approved substrates.

\*\* A set is defined as an equal Part 1 and Part 2.