

## Features and Components

**Use:** For bonding insulation board products to approved roofing substrates, and insulation to insulation.

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

**Substrates:** Compatible with the following insulations, cover boards, and substrates: polyisocyanurate; HD wood fiber; perlite; HD Polyiso; gypsum; concrete; treated plywood; cementitious wood fiber plank; base sheets; gypsum; and some existing smooth-surfaced asphalt (*per inspection*).

**Color:** Pink

**Features:** No primers or catalysts are required for application. May be used in single ply and bituminous systems.



Component

**AD**  
Adhesive

Type

**I**  
Insulation

**B**  
Cover Board

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	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

## Energy and the Environment

Maximum VOC	11 g/l as applied after mixing (EPA method 24)
-------------	--

## Physical Properties

Property		ASTM Test Method	JM Two-Part UIA
Weight	Weight (liquid components)	Part 1	10.32 lb/gal (1.2 kg/l)
		Part 2	8.54 lb/gal (1.0 kg/l)
Viscosity (liquid components)		Part 1	300 cps
		Part 2	280 cps
Strength	Density - Free Rise	D-1622	3.2 lb/cf (0.05 g/cm)
	Compressive Strength - Parallel	D-1621	38 psi (0.26 MPa) @ 6% deflection
	Tensile Strength	D-1623	35 psi (0.26 MPa)
	Water Absorption	D-2843	5.1%
	Closed Cell Content	D-2856	90% (min)

## Codes and Approvals



## Storage

Shelf Life	18 months from manufacture date
Storage Conditions	Clean, dry, well-ventilated indoor environment in an unopened container
Temperature Range	45°F to 95°F (7°C to 35°C) - Protect from freezing

## Installation/Application



- **Cartridges:** Two grades available, applied at temperatures between: Winter grade: 0°F to 65°F (-18°C to 18.3°C)
- **Boxes/Drums:** Two grades available, applied at temperatures of: Regular grade: 40°F (4°C) and above Winter grade: 25°F to 65°F (-4°C to 18.3°C)
- Adhesive must be 72°F (22°C) before using in a pace cart.
- Refer to the application instructions guidelines for proper utilization of this product.
- Ambient temperature must remain at 40°F (4°C) or higher for a minimum of 24 hours after applying or the adhesive may not cure properly.

## Packaging and Coverage

Container Type	Case	Box	Drum
Items per Case/Set	4 - cartridges/case with 6 mixing tips	2 - boxes (parts)/Set 5 gal (18.9 l) each	2 - drums (parts)/Set 15 gal (56.8 l) each
Shipping Weight (approx.)	19 lb (8.6 kg)	Part 1 = 52 lb (23.6 kg) Part 2 = 43 lb (19.5 kg)	Part 1 = 160 lbs (72.6 kg) Part 2 = 135 lbs (61.2 kg)
Pallet Quantity	40	32	9
Coverage Rate*	400 ft <sup>2</sup> to 600 ft <sup>2</sup> (37.16 m <sup>2</sup> to 55.74 m <sup>2</sup> ) per case	1200 ft <sup>2</sup> to 2500 ft <sup>2</sup> (111.5 m <sup>2</sup> to 185.8 m <sup>2</sup> ) per set	3600 ft <sup>2</sup> to 7500 ft <sup>2</sup> (334.5 m <sup>2</sup> to 696.8 m <sup>2</sup> ) per set

+ 50 gal size available as special order item.

\* 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 RoofNav<sup>SM</sup> or the UL Certifications Directory for specific application rates.

## Installation/Application Instructions

JM Two-Part UIA is dispensed in a semi-liquid bead that rises  $\frac{3}{4}$ " to 1" (19 mm to 25 mm) above the substrate. Beads are typically 12" (305 mm) on center. Within two minutes, the insulation board is placed into the adhesive and walked into place. Weigh the board stock down with readily available load on the rooftop; example pails of bonding adhesive, screw/plate buckets or other sources of weight (minimum 32 lbs) that will not damage the roof insulation. The adhesive cures completely in approximately 4 to 8 minutes after application, depending on temperature and weather conditions. Note: Board stock must be placed into the adhesive while it is still wet (before it reaches its tack-free state).

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 Two-Part UIA.

## Typical Application Rates

Coverage rates vary depending on surface roughness and absorption rate of the substrate. All coverage rates are based on 12 inch on center maximum spacing, except for steel which is based on 6 inch on center maximum spacing. See table below for typical coverage rates on specific substrates.

Insulation to:	sqs/gal	sqs/box of 4 cartridges
Concrete	up to 2.5	6
Insulation	up to 2.5	6
Smooth BUR	up to 1.7	5
Mod Bit	up to 1.7	5
Gypsum	up to 2.0	5
Lightweight Concrete*	up to 1.7	4
Wood	up to 2.5	6
Tectum	up to 1.2	4
Steel	up to 1.4	4

\*Coverage rate may vary based on the absorption rate and/or the surface conditions of the LWIC.

## Clean-Up and Disposal

### Disposal

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

### 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.

### 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.

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please 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). The physical and chemical properties of the product listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with the regional sales representative nearest you for current information.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville roofing products and systems, visit [www.jm.com/terms-conditions](http://www.jm.com/terms-conditions).