



# JM Two-Part Urethane Insulation Adhesive

## Description

JM Two-Part Urethane Insulation Adhesive (UIA) is a two-component polyurethane adhesive used for attaching insulation boards to the roof deck or to other insulation boards.

**Cartridges** are available in two grades: Winter and Regular.

### Temperature Range of Use

Winter grade	0°F (-18°C) to 40°F (4°C)
Regular grade	40°F (4°C) and higher

**Boxes** are only available in Regular grade.

### Temperature Range of Use

Regular grade	40°F (4°C) and higher
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## Application

JM Two-Part UIA is dispensed in a semi-liquid bead that rises ¾" 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. The adhesive cures completely in approximately 5 to 12 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).

Typical coverage rates\* are 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 of 4 **cartridges**. Typical coverage rates for **boxes** (Part 1 [5 gal] and Part 2 [5 gal]) covers 1,000 ft<sup>2</sup> to 2,000 ft<sup>2</sup> (92.9 m<sup>2</sup> to 185.8 m<sup>2</sup>). The application rate must be increased for rougher surfaces and coverage rate will vary depending on roughness.

\* Coverage rates depend upon weather conditions and substrate. Refer to specific code agency Web sites for exact construction information.

## Typical Application Rates

Insulation to	sqs/gal pace cart	sqs/box of 4 cartridges
Concrete	1.7 to 2	6
Insulation	1.7 to 2	6
Smooth BUR	1.5 to 1.7	5
Mod Bit	1.5 to 1.7	5
Gypsum	1 to 1.2	4
Lightweight Concrete	1 to 1.7	4
Wood	1.7 to 2	6
Tectum	1 to 1.2	4
Steel	1 to 1.2	4

## Use

To attach insulation boards to these compatible roof decks and substrates:

- Lightweight structural concrete\*
- Poured-in-place structural concrete\*
- Precast concrete\*
- Insulating concrete\*
- Treated plywood (5/8" [1.58 cm] min. thickness)
- Smooth BUR
- Steel – 22 gauge or lower with approved cross-section\*\*
- Cementitious wood fiber plank
- Base sheets
- Gypsum
- Some existing smooth surfaced asphalt (per inspection)

\* Drying time of 28 days required.

\*\* Steel must be cleaned of oils.

To attach insulation boards to these compatible insulations and coverboards:

- Polyisocyanurate
- HD wood fiber
- Perlite
- Invinsa™ Roof Board
- Gypsum

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.

## Advantages

- No primers or catalysts are required for application
- No ballasting of boards required
- May be used in single ply and bituminous systems
- VOC free, per ASTM standard D5201-05a

## Energy and the Environment

<b>LEED®</b>	<b>VOC Content:</b> 0 g/L
	<b>Producing Locations:</b> Rockford, MN

Refer to the Material Safety Data Sheet and product label prior to using this product.



# JM Two-Part Urethane Insulation Adhesive (cont'd)

## Packaging

JM Two-Part UIA is available in cartridges for hand-held application, or 5 gal (18.9 l) boxes for pace cart application (a Part 1 box and a Part 2 box).

**Cartridges:** 4 per case, with 6 mixing tips. A special applicator is used to dispense the adhesive.

Weight (per case of cartridges) – 19 lb (8.6 kg)

Cases per pallet – 40

**Boxes:** Part 1 and Part 2. These parts are placed onto the pace cart. Carts and applicators are available; contact JM customer service.

Weight (per box, Part 1) – 52 lb (23.6 kg)

Weight (per box, Part 2) – 43 lb (19.5 kg)

Boxes per pallet – 32

## Storage

Keep containers closed and store in a well-ventilated, cool, dry place. Store between 45°F (7°C) and 95°F (35°C). Protect from freezing. Pails must be 72°F (22°C) before use in a pace cart. Product shelf life for both pails and cartridges is 18 months from the date of manufacture.

## Typical Physical Properties

Property	Test Method	Values
Density	ASTM D-1622	
Free Rise		3.2 lb/cf (0.05 g/cm)
Compressive Strength	ASTM D-1621	38 psi (0.26 MPa)
Parallel		@ 6% deflection
Tensile Strength	ASTM D-1623	35 psi (0.26 MPa)
Water Absorption	ASTM D-2843	5.1%
Closed Cell Content	ASTM D-2856	90% min.
Weight (liquid components)		
"Part 1" Component		10.32 lb/gal (1.2 kg/l)
"Part 2" Component		8.54 lb/gal (1.0 kg/l)
Viscosity (Liquid components)		
"Part 1" Component		300 cps
"Part 2" Component		280 cps
VOC Content	ASTM D-5201-05a	0 g/l
Post Industrial recycled content		0%
Post Consumer recycled content		0%

## Caution

**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.

Refer to the Material Safety Data Sheet and product label prior to using this product.