



JM Green Two-Part Urethane Insulation Adhesive

Description

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

Cartridges are available in Regular grade.

Temperature Range of Use

Regular grade 40°F (4°C) to 120°F (49°C)

Bag-in-Box is available in three grades: Winter, Regular and Summer.

Temperature Range of Use

Winter grade 40°F (7°C) to 60°F (15°C)

Regular grade 60°F (15°C) to 90°F (27°C)

Summer grade 90°F (27°C) and higher

Application

JM Green 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 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).

Typical coverage rates* are 400 ft² to 600 ft² (37.16 m² to 55.74 m²) per case of 4 **cartridges**. Typical coverage rates for 10 gallon Bag-in-Box are 1,000 ft² to 2,000 ft² per box (9.29 m² to 18.58 m²). 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

	sqs/gal pace cart	sqs/box of 4 cartridges
Insulation to		
Concrete	1.7 to 2	6
Insulation	1.7 to 2	6
Smooth BUR	1.5 to 1.7	5
Modified Bitumen	1.5 to 1.7	5
Gypsum	1 to 1.2	4
Lightweight	1 to 1.2	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 minimum 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 free of any debris, dirt, oil, grease and standing water before using JM Green 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 – 0 grams per liter, per ASTM standard D 5201-05a
- Plant-based formula uses rapidly renewable resources
- No noxious odor
- Contributes to LEED Certified projects
- Environmentally smart packaging

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



JM Green Two-Part Urethane Insulation Adhesive (cont.)

Packaging

JM Green Two-Part UIA is available in cartridges for hand-held application, or 5 gal (18.9 l) Bag-in-Boxes for PaceCart application (a Part 1 box and a Part 2 box).

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

Weight (per case of cartridges) – 19 lb (8.6 kg)
Cases per pallet – 40

Bag-in-Boxes: Part 1 and Part 2. These parts are placed onto the PaceCart. PaceCarts and applicators are available through local distribution; 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. Material must be 72°F (22°C) before use. Product shelf life for both pails and cartridges is 18 months from the date of manufacture.

Typical Physical Properties

Property	Values	Test Method
Density		ASTM D-1622
Free Rise	3.38 lb/cf (0.05 g/cm)	
Compressive Strength		ASTM D-1621
Parallel	20.6 psi @ 6% deflection	
Tensile Strength	39.27 psi	ASTM D-1623
Water Absorption	40%	ASTM D-2843
Closed Cell Content	19.50 min.	ASTM D-2856
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	225 cps	
"Part 2" Component	350 cps	
VOC Content	<10 g/l	ASTM D-5201-05a
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 and shoes before reuse. 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.

UPC Data

UIA 2PRT CARTRIDGES GREEN	UPC 70000551
Alias #1 is: UIA2PART GREEN CTRG	
UIA 2PRT BAG-IN-BOX GREEN	UPC 70000552
Alias #1 is: UIA P1GREEN	
UIA 2PRT BAG-IN-BOX PRT2 GREEN	UPC 70000553
Alias #1: UIA P2GREEN	

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