

JM TWO-PART URETHANE INSULATION ADHESIVE CANISTER

Features and Components

Use: For bonding fleece-backed singly ply, insulation and cover boards.

Type: Self-contained two-part, low-rise foam adhesive. The smaller Canister kits, packaged in a single box, can provide up to 10 squares of coverage per set, and are ideal for small jobs, service, and repair work.

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

Color: Pink.

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>								



Component
AD Adhesive
M Membrane
Type
I Insulation
B Cover Board
Multi-Ply Single Ply

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
 *May also be used to adhere fleece-backed TPO and PVC Membranes to insulation and cover boards.

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



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. 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.

Installation/Application



- Apply at ambient temperature of 40°F (4°C) and rising.
- Adhesive must be 70°F (21°C) before application.

Packaging and Coverage

Container Type	Canister/Small Canister Kit
Items per Box	25 ft hose/ 10ft hose Gun Assembly 6 Mixing Tips 3 - 17" Extension Tubes
Shipping Weight (approx.)	Part 1 = 48 lbs (22 kg) Part 2 = 38 lbs (17 kg) Small Canister Kit = 39 lbs (18 kg)
Cases/Boxes per Pallet	40/36 kits
Coverage Rate*	For Board Installation only: 12" OC Beads: 3500 ft ² (325 m ²)/ 1000 ft ² (93 m ²) 6" OC Beads: 1750 ft ² (163 m ²)/ 500 ft ² (46 m ²) 4" OC Beads: 1172 ft ² (109 m ²)/ 335 ft ² (31 m ²) For Membrane Installation Only: Spatter Pattern: 2400 ft ² (223 m ²)/ 700 ft ² (64 m 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	16 months from manufacture date
Storage Conditions	Clean, dry, well-ventilated indoor environment in an unopened container
Temperature Range	60°F to 90°F (16°C to 32°C) - Minimum application temperature is 70°F (21°C). Protect from freezing.

Features

- Fully self-contained, no equipment to buy or maintain.
- Fast start-up and shut down with stop and start capability (including a trigger-lock for the dispenser)
- Empty canisters are easy to dispose.
- Up to 35 squares per set for insulation attachment (20% more coverage than competitive solutions), depending on the weather conditions and insulation type.
- Up to 24 squares per set for splatter attachment (nearly 3X the coverage of competitive solutions) depending on the weather conditions and membrane type.
- The highly portable small canister kits come with a 10-ft. (3 m) hose and gun assembly, they can provide up to 10 squares per set depending on the roofing assembly.
- Dynamically foamed material means faster install times and minimal ballast required for boards
- Wide application window with installation temperatures ranging from 40°F to 100°F (4°C to 38°C).
- Each set comes with a disposable 25-foot (8 m) hose and gun assembly, for a wide reach radius on the roof.
- Very low odor and ultra-low VOC levels.

Installation/Application Instructions

JM Two-Part UIA Canister is dispensed in a foamed bead or spatter pattern that quickly rises 25 mm above the substrate. The insulation board or membrane 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 3 to 6 minutes after application, depending on temperature and weather conditions. Note: Material 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 Canister.

- Adhesive must be 70°F (21°C) before application. This normally requires 36+ hours at room temperature.

Partially used canisters:

- Turn the valves into their OFF position.
- Do not drain the chemical from the hoses.
- Slide the safety on the applicator gun into the LOCKED position.
- Remove the old nozzle, but do not throw away. Clean off the end of the gun to ensure the chemical exits are not obstructed. Apply fresh lubricant to the black rubber O-ring. Reattach the old nozzle, which, clogged with adhesive, will keep air and moisture out of the lines.
- Remaining contents must be dispensed within 30 days of the date of initial use.
- After every 7 days without use, dispense a small amount of chemical to prevent crystallization from occurring in the hoses
- Please refer to detailed installation instructions on next page.

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. 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.

Clean-Up and Disposal

Disposal

- During product disposal, wear recommended eye and skin protection. Maintain proper ventilation.
- Empty tanks completely of any remaining material.
- Add oil absorbent to waste components. Dispose of waste in an approved landfill.
- Turn empty canister upside down and open valve completely to relieve the canister of pressure.
- Once pressure is completely evacuated, locate and punch out the button on the shoulder of the canister using a non-ferrous punch.
- Empty cylinders can be sent to a metal recycler or an approved landfill.
- Cured adhesive is considered inert and can be disposed of with standard municipal waste.
- Check with your local waste disposal service for guidance.
- DO NOT INCINERATE CANISTERS.

Precautions

First Aid – EYES: Flush with water for at least 15 minutes. Seek medical attention. **SKIN:** Remove contaminated clothing. Wipe excess foam off with rags. Wash skin thoroughly with plenty of soap and water. Scrape off excess cured adhesive with an abrasive pad. Residual foam will gradually wear off. If irritation persists or difficulty breathing occurs, seek medical attention. Do not use solvent to remove adhesive. **INHALATION:** Immediately move to fresh air. If breathing is difficult, have trained personnel administer oxygen. Seek medical attention. **INGESTION:** Drink large quantities of water. DO NOT induce vomiting. Seek medical attention. Refer to Safety Data Sheet for further information.

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.

Safety – Wear proper clothing and safety equipment.

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.