

INSULATION ADHESIVES

# Millennium One Step Foamable Adhesive<sup>®</sup>



## DESCRIPTION

Millennium One Step Foamable Adhesive<sup>®</sup> is a highly elastomeric, all-purpose, foamable adhesive that contains no solvents, sets in minutes, and is designed for use with our One Step<sup>™</sup> application process.

Millennium One Step<sup>™</sup> application is quick and easy, resulting in significant labor savings for the contractor. No expensive, unreliable pump carts or spray rigs are required. For more information on why One Step Foamable Adhesive<sup>®</sup> is simply the better choice for insulation attachment, please see “The Millennium One Step Advantage<sup>®</sup>” Technical Brochure.

## BASIC USE

Millennium One Step Foamable Adhesive<sup>®</sup> is designed for use as an adhesive for bonding approved roof insulations to a building’s structural roof deck, base sheets, other insulation boards, and smooth or properly prepared graveled built-up roof surfaces.

Millennium One Step Foamable Adhesive<sup>®</sup> eliminates the need for mechanical fasteners that can often cause damage to the roof deck, which can reduce the roof’s service life.

## APPROVED INSULATIONS AND SUBSTRATES

- HD wood fiber
- Polyisocyanurate
- Perlite (upon approval)
- Polystyrene
- Gypsum cover board
- Asphaltic cover boards
- Concrete
- Gypsum roof deck
- Cementitious wood fiber
- Wood or steel
- Mineral wool
- Lightweight insulating concrete
- Modified bitumen membranes and base sheets (sanded or granule surfaced)
- Approved insulations (multi-layer applications)
- Smooth or gravel surface built-up roof (re-roof applications)

## SAFETY

Prior to working with this or any adhesive product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions.

## LIMITATIONS

- Do not apply to wet or damp surfaces.
- Not recommended for use with insulation boards larger than 4’ x 4’ (1.2m x 1.2m).
- Do not use warped or curled insulation boards. All insulation boards must lay flat upon the roof surface.
- When applying Millennium One Step Foamable Adhesive<sup>®</sup> over a smooth or sanded APP roof surface Millennium Surface Treatment may be required. Contact your H.B. Fuller Field Sales and Service Representative for more information.

## FEATURES

## BENEFITS

Replaces fastener plates	Reduces thermal bridging maintaining the insulation integrity
No temperature restrictions	Suitable for all climates
Solvent free	Essentially VOC free, no odors
Elastomeric	Remains flexible, absorbs stresses
Low rise foam	Accommodates minor surface irregularities
Replaces fasteners	Minimizes penetrations and deck corrosion



## APPLICATION

1. Remove snap off tip from the One Step™ mixing head and keep for re-use.
2. Attach a One Step™ mixing nozzle to the threaded mixing head.
3. Place the cartridge into the appropriate One Step™ applicator. Caution: Adhesive should be dispensed immediately after loading the cartridge into the dispensing tool to prevent adhesive from foaming and curing in the mixing tip.
4. Apply Millennium One Step Foamable Adhesive® directly to the substrate, using a ribbon pattern. Space 1/4" to 1/2" (0.6cm to 1.3cm) wide beads, 12" (30cm) o.c., to achieve proper coverage rates for insulation attachment. As adhesive is applied, immediately place insulation board into wet adhesive. Do not allow the adhesive to skin over. Eliminate uneven surfaces to ensure positive contact between the insulation board and substrate.
5. Un-used material can be applied at a later date simply removing the used static mixing tip, wiping the neck of the cartridge clean and plugging the cartridges with provided snap off tips.
6. Caution: Millennium One Step Foamable Adhesive® reacts quickly in warm, moist climates. Roofers must set insulation boards quickly in these conditions.

## SURFACE PREPARATION

All work surfaces should be clean, dry, and free of dirt, dust, debris, oils, loose and/or embedded gravel, un-adhered coatings, deteriorated membrane and other contaminants that may result in a surface that is not sound or is uneven.

For applications over gravel surfaces apply Millennium Universal Primer prior to the application of Millennium One Step Foamable Adhesive®. For applications over fresh and/or non-oxidized asphalt, coal tar or plastic film membranes, Millennium Surface Treatment maybe required prior to the application of Millennium One Step Foamable Adhesive®.



For more information about our company, visit [www.hbfuller.com/roofing](http://www.hbfuller.com/roofing).

## EQUIPMENT

The fast and dependable One Step™ applicators make applying Millennium One Step Foamable Adhesive® simple:

- Patented Multi-Bead Plus Applicator\*
- Patented Multi-Bead Applicator\*\*
- Battery Powered Single Bead Applicator
- Pneumatic Single Bead Applicator
- Ultra Drive Manual Applicator
- Heavy Duty Manual Applicator

## STORAGE AND SHELF LIFE

Keep temperature of contents between 65°F to 85°F (18°C to 29°C) 24 hours prior to use. Do not store in direct sunlight or temperatures higher than 90°F (32°C). Shelf life is 18 months in unopened original packaging when stored at 65°F to 85°F (18°C to 29°C).

## COLOR

Off white-light amber when dispensed

## PACKAGING AND COVERAGE

Millennium One Step Foamable Adhesive® is available in the following package:

Cartridge Size	Part #	Cartridges/Case
1.5 Liter	OS-FA15-04	4

Covers 600 sq ft (56m<sup>2</sup>) per case. Coverage estimates indicate total square feet of insulation attachment per case. Rates are based on an application pattern of 4 ribbons, 1/4" to 1/2" (0.6cm to 1.3cm) wide, 12"(30cm) o.c. per 4' x 4' (1.2m x 1.2m) insulation board. Coverage rates may be lower when used over irregular surfaces and will vary depending on roughness.



\*US 9,381,536 B2

\*\*US 7,056,556 B2; US D501,855 S; CA 2,493,739 C

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