

TPO LRF Adhesive M Low Temp Data Sheet

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North America's Largest Roofing Manufacturer!™*



TPO LRF Adhesive M Low Temp (1 of 2)

Description

GAF TPO LRF Adhesive M Low Temp is a two-component, VOC-free, low-rise polyurethane foam adhesive that contains no solvents and can be used to adhere both insulation boards and TPO fleece-back membrane in temperatures ranging from 25°F to 60°F (-3.9° C to 15.6°C).

Application is quick and easy, resulting in significant labor saving for the contractor. It is packaged in 1.5-liter cartridges, so it does not require expensive, unreliable pumps or spray equipment. GAF TPO LRF Adhesive M Low Temp can be used with any Millennium One Step™ applicators, which ensures a one-to-one mixture due to a single-axle drive shaft design.

Approved Insulations and Substrates

- Polyisocyanurate
- Polystyrene
- Gypsum cover boards
- Asphaltic cover boards
- Concrete
- TPO fleece-back membrane only
- Pre-existing asphaltic roof surface (Adhesion tests required to determine suitability. Contact your GAF territory manager to arrange testing.)

For additional information, contact your local GAF territory manager or call 1-800-ROOF-411.

Advantages

- Can be used for both insulation board and fleece-back TPO membrane attachment...In lower

temperatures (cannot be used on fleece-back PVC)

- Replaces fasteners and plates... Minimizes excessive deck penetrations and reduces thermal bridging
- Low-rise foam...Accommodates minor surface irregularities
- Solvent free...VOC free, low odor.

Storage

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).

Color

Off white/light amber when dispensed.

Surface Preparation

All work surfaces should be clean, dry, and free of dirt, dust, debris, oil, 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 may be required prior to the application of Millennium One Step™ Foamable Adhesive.

Safety

Prior to working with this or any adhesive product, consult product label and safety data sheet (SDS) for necessary health and safety precautions.





TPO LRF Adhesive

M Low Temp (2 of 2)

Limitations

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

Application

1. Remove snap-off tip from the Millennium One Step™ mixing head and keep for re-use.
2. Attach a Millennium One Step™ mixing nozzle to the threaded mixing head.
3. Place the cartridge into the appropriate Millennium 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 ¼" to ½" (0.6 cm to 1.3 cm) wide beads, 12" (30 cm) 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. Unused material can be applied at a later date by simply removing the used static mixing tip, whipping 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.

Equipment

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

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

Coverage Rate

Properly mixed and applied GAF TPO LRF M Adhesive Low Temp will produce the following approximate coverage rate:

| Product Configuration | Standard Coverage rate |
|-----------------------|--|
| Cartridge (4/box) | 12" (305 mm) o.c.* 5 to 6 squares (37 to 56 m ²) per case (1.5 liter per cartridge) |

*With no corner or perimeter enhancements