

# Tremco Low Rise Foam Insulation Adhesive

*Solvent Free, Fast Setting Insulation Attachment Applied Using a Cartridge Gun*

## FEATURES

Solvent Free

2-Component

Non-penetrating attachment

## BENEFITS

- VOC free
- Low odor
- Not flammable

- Sets in minutes
- Applied using handheld cartridge gun

- No fastener back out
- No corrosion
- Minimizes installation noise

## DESCRIPTION

Tremco Low Rise Foam Insulation Adhesive is a two component (1:1 ratio), solvent free, elastomeric urethane adhesive. Tremco Low Rise Foam Insulation Adhesive is asbestos free, extremely low in odor, and does not contain any bitumen.

## BASIC USES

Tremco Low Rise Foam Insulation Adhesive is a fast-setting, high-performance adhesive used in roofing systems for bonding approved insulations to base sheets, structural roof decks, and other approved insulations.

Refer to UL Roofing Materials and Systems Directory and/or FM Approvals RoofNav® for applicable system configurations.

## APPROVED INSULATIONS

- HD wood fiber (ASTM C 208, Type 2, Grade II)
- Polyisocyanurate board
- Polystyrene
- Gypsum cover board ASTM C1177 & ASTM C1278
- 4' x 8' gypsum roof boards are acceptable
- Asphaltic roof board

## APPROVED SUBSTRATES

- Concrete roof decks
- Cementitious wood fiber decks (Tectum)
- Steel deck
- SBS Modified Bitumen membranes (smooth or granule)
- Asphalt base sheets
- Approved insulations in multi-layer constructions
- Smooth or gravel BUR (remove loose gravel)

## PACKAGING

Available in dual joined cartridge set (Parts 1 & 2) at 1.5 L (0.40 gal) per set. 4 sets per case for a total of 6L (1.58 gal) per case. Six static mixing tips are provided per each case.

## STORAGE

**Storage Conditions:** Keep material temperatures above 45°F (7°C) and do not exceed 95°F (35°C) during storage. Keep from freezing. Do not store in direct sunlight.

**Storage Life:** 1.5 years (18 months) in unopened containers when stored in proper warehouse temperatures and conditions.

## APPLICATION

### EQUIPMENT:

**Cartridge Unit:** Custom battery powered Applicator is recommended. Hand powered cartridge application guns are acceptable for use but require smooth even pressure for continuous bead size.

### SURFACE PREPARATION:

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

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## APPLICATION CONTINUED

**Existing roof surfaces (recovers):** All loose gravel must be entirely removed from gravel surfaced BUR membranes. This can be achieved by power brooming, dry vacuuming, or wet vacuuming. If wet vacuum is used the roof surface must be allowed to dry completely before applying primer and adhesive. Blisters in the existing roof membrane must be removed to allow insulation boards to lay flat. Prime BUR and smooth APP modified bitumen surfaces with Tremco SP Primer at a coverage rate of 300 to 400 ft<sup>2</sup>/gal (7.4 to 9.8 m<sup>2</sup>/L). Primer is not required for granulated modified bitumen membranes. For application over existing coated roof surfaces (e.g. aluminum, white elastomeric, etc.) the coating must be well adhered. Conduct a pull test to verify adhesion.

**Vapor retarder surfaces:** temporary roof membranes or vapor retarders consisting of asphalt glaze coated felts or new smooth APP or SBS modified bitumen membranes must be primed with Tremprime WB at 200 to 400 ft<sup>2</sup>/gal (4.9 to 9.8 m<sup>2</sup>/L). Primer is not required for sand-surfaced SBS membranes.

### APPLICATION:

**Battery powered single bead applicator:** Snap off the molded cap on the top of the adhesive cartridge and screw on the mixing tip. Make sure mixing tip is tight to prevent adhesive leakage. Install the cartridge into the battery powered or pneumatic single bead applicator.

Apply ¼"-1/2" wide adhesive beads to the substrate or insulation board in ribbons spaced a minimum of 12 inches on center (spacing may need to be decreased depending on wind uplift requirements). Install insulation boards immediately into the wet adhesive. Do not allow adhesive beads to skin over before placing the boards. Walk on boards to fully press them into the wet adhesive. Use temporary ballast to assure board corners bond tightly to substrate and provide a flat insulation surface. Adhesive will lock boards down in approximately 5 to 7 minutes (slightly longer under cool ambient conditions). Replace mixing tip if application is interrupted for more than 1 minute as adhesive will cure in the nozzle and prevent proper flow of material. Note: mixing tips for cartridge material should not be used with 5 gal. box material.

### Cold Temperature Applications:

Tremco Low Rise Foam Insulation Adhesive may be applied at any cold temperature provided the cartridges have been stored and conditioned at 70°F-85°F (22°C-29°C) for 24 hours prior to use. Cure rate will be slower at these cold temperature, but product will cure within acceptable roofing guidelines.

### Based on 12" OC bead spacing;

Cartridges - 4 to 5 SQ per case

- Do not store in direct sunlight or at temperatures above 95°F (35°C).
- Product material temperature must be between 70°F - 85°F (22°C - 29°C) for 24 hours prior to use.
- Do not use with insulation boards larger than 4' x 4' (1.2m x 1.2m) (see exceptions in Approved Insulation section).
- Do not use insulation boards which have become warped, cupped, or have poor quality due to improper storage/handling. Insulation boards must lay flat upon the roof substrate.
- Do not apply onto wet or damp substrates.
- Do not puddle or mound the adhesive as this will cause the board to rise excessively and lead to gaps between the decking and substrate.

## COVERAGE RATE

## LIMITATIONS

## PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Tensile Strength Min.	250 psi	ASTM D 412
Density	8.5 lbs./gal.	ASTM D 1875
Peel Adhesion	Min. 17 lbf./in.	ASTM D 903
Flexibility	Pass @ 70°F	ASTM D 816
Flame Spread Index	10	ASTM E 84
Smoke Developed Index	30	ASTM E 84

# Tremco Low Rise Foam Insulation Adhesive

**MAINTENANCE**

**PRECAUTIONS**

**TECHNICAL SUPPORT**

Your local Tremco Roofing representative can provide you with effective maintenance procedures, which may vary depending upon specific conditions. Periodic inspections, early repairs and preventive maintenance are all part of a sound roof program.

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the service of the Tremco Service Staff.



Roofing & Building Maintenance

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