

Tremco Low Rise Foam Insulation Adhesive

Solvent Free, Fast Setting Insulation Attachment

Composition:

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 or VOC's.

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.

Limitations:

- Do not store in direct sunlight or at temperatures above 95°F (35°C).
- Do not apply when ambient temperatures are below 45°F (7°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 below).
- 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.

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

Approved Substrates:

Concrete roof decks
 Cementitious wood fiber decks (Tectum)

Product Advantages	
Features	Benefits
Solvent Free	<ul style="list-style-type: none"> • VOC free • Low odor • Not flammable
2-Component	<ul style="list-style-type: none"> • Sets in minutes
Non-penetrating attachment	<ul style="list-style-type: none"> • No fastener back out • No corrosion • Minimizes installation noise

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.

Available in disposable plastic bags in a corrugated box (BG), for application using the approved low pressure adhesive pump cart.

- 5 gal. (18.9 L) Part A

- 5 gal. (18.9 L) Part B

Also available in 30 gallon kits, consisting of 15 gal Part A and 15 gal Part B, and in 100 gallon kits, consisting of 50 gal Part A and 50 gal Part B.

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 year 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.

Cyclone Pump Cart for 10 gal. kits: A low pressure adhesive pump cart designed to dispense two component

1:1 ratio low viscosity adhesives. Part A and Part B Components are mixed at the dispensing gun to apply a single bead of low rise foam adhesive. Each gun has a 35 foot dual material line. Pump is powered with 110 Volt, 60 Hz AC.

Approved Pumps: The 30 gal. and 100 gal. kits are applied using 1:1 ratio dispensing equipment designed for fast setting urethane foam adhesives.

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.

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

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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 ft²/gal (7.4 to 9.8 m²/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 ft²/gal (4.9 to 9.8 m²/L). Primer is not required for sand-surfaced SBS membranes.

Coverage Rate: Based on 12" OC bead spacing;
Cartridges - 4 to 5 SQ per case
10 gal. BG - 20 to 25 SQ per kit
30 gal. Kit - 65 to 75 SQ per kit
100 gal. Kit - 225 to 250 SQ per kit

Application:

Low pressure pump system: Remove plastic packages from corrugated boxes using pull-tabs. DO NOT USE A KNIFE OR SHARP TOOL! Load Part A plastic package valve side down onto pump tray labeled Part 1 and connect black quick connect fittings. Load box labeled Part B valve side down onto pump tray labeled Part 2 and connect gray quick connect fittings. Note; improper loading can result in cross contamination in the supply lines and pumps and seriously damage the machine.

Before installing mixing tip hold gun assembly over a waste container and open valves. Allow a small amount of material to run out and ensure 1 to 1 ratio flow of materials. Do not proceed with adhesive installation if flow is not on a 1 to 1 ratio. Close valves and install a small amount of grease on the threaded manifold tip. Install mixing tip.

Open valve and apply 3/4" wide adhesive beads to the substrate or insulation board in ribbons spaced a minimum of 12" on center. Once adhesive begins to rise install insulation boards. Do not allow adhesive to skin over before placing the boards. Walk on boards to fully press them into the wet adhesive. Adhesive will lock boards down in approximately 5 to 7 minutes. 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.

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 1/4"-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. Adhesive will lock boards down in approximately 5 to 7 minutes. 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.

Physical Performance Characteristics

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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

Maintenance: 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.

Guarantee/Warranty: Tremco Inc. warrants Tremco Low Rise Foam Insulation Adhesive to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any product that is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge. THIS IS BUYER'S SOLE AND EXCLUSIVE REMEDY. All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product. This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Technical Services: 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 services of the Tremco Technical Service staff.

Statement of Policy and Responsibility: Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation. As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.



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