

Tremco LR Adhesive

Solvent-Free, Fast Setting, Fleece-Back Membrane Attachment

Composition:

Tremco LR Adhesive is a two-component (1:1 ratio), solvent-free, elastomeric urethane adhesive. Tremco LR Adhesive is asbestos-free, extremely low in odor, and does not contain any bitumen or VOC's.

Basic Uses:

Tremco LR Adhesive is a fast-setting, high-performance adhesive used to adhere fleece-back single-ply membranes to approved substrates.

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 apply onto wet or damp substrates.
- Do not puddle or mound the adhesive as this will cause the membrane to rise excessively and lead to an uneven surface.

Approved Substrates:

Approved Insulations (polyisocyanurate, wood fiber, gypsum)
Asphalt Base Sheets
Concrete Roof Decks

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, which are required to properly mix the dual components during application.

Available in disposable plastic bags in a corrugated box (Bag-in-Box), for application using the approved low pressure adhesive pump cart. Part A and Part B are shipped together as a set

- 5 gal. (18.9 L) Part A
- 5 gal. (18.9 L) Part B

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
Industry approvals	<ul style="list-style-type: none"> • FM approved • UL approved

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.

Bag-in-Box Pump Cart: 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 LR Adhesive. Each gun has a 35 foot dual material line. Pump is powered with 110 Volt, 60 Hz AC current.

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.

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.

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. Refer to pump data sheet for complete operating instructions.

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.

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Open valve and apply ¼"-1/2" wide adhesive beads to the substrate or insulation board in ribbons spaced a maximum 12" o.c. (spacing may need to be adjusted depending on wind uplift requirements). Once the adhesive begins to rise install the fleece-back membrane into the adhesive and roll membrane using a weighted roller. Do not allow the adhesive beads to skin over before placement of the fleece-back membrane. Roll the membrane with a min. 60 lb weighted roller to press the fleece backing into the wet adhesive. Replace mixing tip if the application is delayed for more than 1 minute as the adhesive will cure in the nozzle and prevent proper flow of the material. Note: Mixing tips for cartridge material should not be used with 5 gal. box 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. Refer to applicator data sheet for complete operating instructions.

Open valve and apply ¼"-1/2" wide adhesive beads to the substrate or insulation board in ribbons spaced a maximum 12" o.c. (spacing may need to be adjusted depending on wind uplift requirements). Once the adhesive begins to rise install the fleece-back membrane into the adhesive and roll membrane using a weighted roller. Do not allow the adhesive beads to skin over before placement of the fleece-back membrane. Roll the membrane with a min. 60 lb weighted roller to press the fleece backing into the wet adhesive. Replace mixing tip if the application is delayed for more than 1 minute as the adhesive will cure in the nozzle and prevent proper flow of the material. Note: Mixing tips for cartridge material should not be used with 5 gal. box material.

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 LR 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.

Physical Performance Characteristics

Tremco LR Adhesive

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

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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