

Tremco LR Adhesive

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

FEATURES

Solvent Free

2-Component

Non-penetrating attachment

Industry approvals

BENEFITS

- VOC free
- Low odor
- Not flammable
- Sets in minutes
- No fastener back out
- No corrosion
- Minimizes installation noise
- FM and UL approved

DESCRIPTION

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.

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

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 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

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APPLICATION

CONTINUED

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.

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 fleeceback 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 fleeceback 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.

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.

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

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MAINTENANCE

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

PRECAUTIONS

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

TECHNICAL SUPPORT

Your local Tremco Roofing sales representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



www.tremcoroofing.com
3735 Green Road
Beachwood, Ohio 44122
1.800.852.6013

220 Wicksteed Avenue
Toronto, Ontario, M4H 1G7
1.800.668.9879

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