

POLYLOCK™ LRF ECO

LOW RISE FOAM ROOFING ADHESIVE

PRODUCT DESCRIPTION

Polylock LRF ECO is a two-component, low-rise, solvent-free polyurethane foamable adhesive designed to deliver fast, efficient insulation and fleeceback membrane attachment while eliminating high GWP blowing agents and reducing environmental impact without compromising jobsite productivity. Free of HFCs, and HFOs, it contains no high Global Warming Potential (GWP) blowing agents and utilizes naturally occurring atmospheric gases, eliminating the need for chemical propellants and reducing environmental impact while remaining compliant with all current regulations.

Designed for speed and versatility, the dual pressurized canister system includes twenty-five-foot hoses, applicator, and accessories for an all-in-one solution that requires no additional equipment. An adjustable nozzle enables both spatter and ribbon application, enhancing productivity and jobsite flexibility. The adhesive sets in minutes, reducing installation time while eliminating deck penetrations, corrosion risk, and occupant disruption. It helps improve thermal efficiency by eliminating thermal bridging from fasteners, maximizing R-value and supporting long-term energy savings, while its ultra-low VOC formulation supports safer application environments.

USES

Polylock LRF ECO is designed for use as an adhesive for bonding approved roof insulations to a building's structural roof deck, base sheets, other insulation board stock, and smooth or gravel built-up asphaltic roof surfaces. Polylock LRF ECO is also designed for Modifleece and fleeceback membrane attachment in spatter applications. It is dispensed in 1" – 1.5" (2.5 cm – 3.8 cm) wide beads or in a spatter application using our proprietary dual-purpose static mixer. Our unique design allows both ribbon and spatter applications from a single static mixer. Polylock LRF ECO expands and rises to fill minor surface irregularities.

FEATURES AND BENEFITS

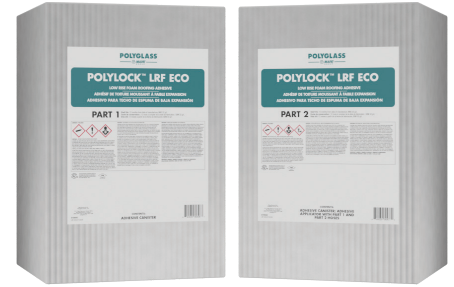
- Provides excellent wind-uplift resistance characteristic of adhered systems.
- Applicator, hose, and all accessories needed are included with each canister set, ensuring there is no extra equipment or additional steps needed.
- Polylock LRF ECO eliminates potential for roof deck corrosion and disruption of building occupants due to fastening.
- Fast application, quick adhesive set in period helping improve installation productivity and labor savings.
- Using Polylock LRF ECO in lieu of mechanical fasteners eliminates thermal bridging and ensures maximum R-Value.
- Contains no CFC or HCFC, high global warming potential propellants which ensures the product meets all current national and state regulations.
- Ultra low VOC content formula is approved for use in all OTC and SCAQMD regulated regions.
- Adjustable nozzle enables both spatter and ribbon application for increased productivity and jobsite flexibility

PROPERTIES

PROPERTY	VALUE
Skin Time*	5 – 8 Minutes
VOC Content	32 g/L
Coverage Rate (Ribbon Application)	Up to 35 squares per set**
Coverage Rate (Spatter Application)	Up to 24 squares per set**
Shelf Life	12 months

*Note conditions - i.e. Standard Temperature/Humidity Conditions (~70°F / 50% RH)

**Coverage rate estimates indicate total square feet of insulation attachment per kit. Rates are based on an application pattern of 4 (four) 1" – 1.5" (2.5 cm – 3.8 cm) ribbons spaced 12" (30 cm) o.c. per 4' x 4' (1.2 m x 1.2 m) insulation board. Coverage rates may be lower when used over irregular surfaces



APPLICABLE STANDARDS

- UL Classified – File #R14571
- FM Approved
- Texas Department of Insurance
- Florida Building Code



PACKAGING

- Part 1 – 18 canisters per pallet
 - Part 2 – 18 canisters per pallet
- Part 1 and Part 2 canister and packaged in individual labeled boxes.

The Part 2 box will contain:

- One applicator
- Hoses
- Four dual-purpose static mixers
- Wrench
- Petroleum jelly
- Set of gloves

COLORS

- Part 1 – Amber
- Part 2 – Clear

PRODUCT CODE

- 6709840 - Polylock LRF ECO Part 1
- 6709940 - Polylock LRF ECO Part 2



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APPLICATION INSTRUCTIONS

NOTE: See detailed application instructions in Part 1 carton.

Surface Preparation:

- Surfaces to receive adhesive must be clean, dry and free from any foreign matter such as dirt, oils, grease or other debris that could inhibit the adhesion capabilities of the newly installed products. Contact Polyglass Technical Services regarding any unusual substrates.
- On existing roofs, inspect roof substrate condition. Blisters, buckles, and raised edges should be cut out and repaired for a smooth surface.
- Check all flashings, edges, drains, valleys and vents and repair as needed.
- Remove canisters from the boxes, place canisters on a firm, level surface and rock each canister 20–30 times to ensure material is properly mixed. Return canisters to their respective boxes.

Insulation Application:

- For ribbon application, rotate static mixer so that the outlet fan is in a horizontal position for ribbon application.
- Holding applicator approximately 12–18" above substrate, fully engage handle and dispense. Polylock LRF ECO adhesive is applied in a serpentine ribbon spacing determined by wind uplift calculations.
- Allow the adhesive to rise slightly before placing insulation.
- "Walk in" or apply ballast to board stock materials to insure positive contact between the adhered materials and substrate during the critical set up period. Do not allow adhesive to skin over.

Modifleece Application:

- For spatter application, rotate static mixer so that the outlet fan is in a vertical position for spatter application.
- Hold applicator approximately 18–24" above application surface and fully engage trigger. Move applicator side to side in a sweeping motion applying adhesive to the substrate. Proper coverage should cover the substrate between 60–80%.
- The bonding range of Polylock LRF ECO is approximately 1–10 minutes from start of spraying and will vary according to ambient as well as substrate temperature.
- Replace used mixing nozzle with a new, unused mixing nozzle after spraying stops for more than one (1) minute.
- Care must be taken, particularly in high temperature environments (90°F (32°C) and above), to ensure that the adhesive has not dried or skinned over prior to embedding the membrane.

LIMITATIONS

- Do not apply to wet surface.
- Not recommended for use with insulation boards larger than 4'x4' (1.2 m x 1.2 m).
- Do not use warped or curled insulation boards. All insulation boards must lay flat upon the roof surface.
- Do not apply when temperatures are below 40°F (4°C)

STORAGE

Keep temperature of contents between 60°F to 90°F (16°C to 32°C). Bring temperature of material to approximately 70°F (21°C) for approximately 24 hours before use. Do not store in direct sunlight or above 95°F (35°C). Store canisters valve side up.

KEEP FROM FREEZING! Shelf life is 12 months when stored properly.

For Professional Use Only - Keep out of the reach of children.

MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Waco, TX
- Winter Haven, FL

CORPORATE HEADQUARTERS

Polyglass U.S.A., Inc.
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Customer Service: (800) 222-9782

Technical Service: (866) 794-9659

Questions? technical@polyglass.com

Product Disclaimer: Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects that result in the material not complying with product specifications for a period of 12 months.

Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances. The product user, and not Polyglass, is responsible for determining the suitability and compatibility of our products for the user's intended use.

For the most current product data and warranty information, visit www.polyglass.us



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