



TRI-BUILT® EF ECO GEN II

DESCRIPTION

TRI-BUILT® EF ECO Gen II is a two-component, low-rise, solvent-free polyurethane foamable adhesive that contains no high Global Warming Potential (GWP) blowing agents. Instead, it uses naturally found atmospheric gases as blowing agents, eliminating the need for chemical alternatives such as HFCs and HFOs, and reducing its environmental footprint. With quick and easy application, the adhesive sets in minutes, providing significant labor savings for contractors. Packaged in dual pressurized canisters and dispensed through a disposable adhesive applicator with twenty-five-foot hoses, this patented product eliminates the need for additional equipment. It is approved for use in all U.S. and Canadian markets that regulate ozone-depleting substances.

BASIC USE

TRI-BUILT® EF ECO Gen II is designed for use as an adhesive for bonding approved roof insulation to a building's structural roof deck, base sheets, other insulation board stock, and smooth or gravel built-up asphaltic roof surfaces. Additionally, it is suitable for fleeceback membrane attachment using ribbon or spatter application methods. The product 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. TRI-BUILT EF ECO Gen II expands to fill minor surface irregularities, ensuring consistent adhesion and a smooth application experience.

APPROVED INSULATIONS AND SUBSTRATES

- Polyisocyanurate (PolyISO)
- Expanded Polystyrene (EPS) & Extruded Polystyrene (XPS)
- Mineral Wool
- Gypsum Cover Board
- Asphaltic Cover Boards
- Cementitious Wood Fiber
- High-Density (HD) Wood Fiber
- High-Density (HD) PolyISO Cover Board
- Concrete
- Gypsum Roof Deck
- Wood or Steel
- Lightweight Insulating Concrete
- Modified Bitumen Membranes and Base Sheets (sanded or granule surfaced)
- Approved Insulations (for multi-layer applications)
- Smooth or Gravel Surface Asphaltic Built-Up Roof (for re-roof applications)

SAFETY

Prior to working with Millennium PG-1 EF ECO₂ or any adhesive product, consult the product label and Safety Data Sheet (SDS) for important health and safety precautions.



FEATURES	BENEFITS
No high-GWP (CFCs, HCFCs), or HFOs used in blowing agent	TRI-BUILT® EF ECO Gen II is compliant for use in all North American VOC regulated markets including 2025 South Coast Air Quality Management District revisions
Innovative spray nozzle for multiple applications	TRI-BUILT® EF ECO Gen II can be used for spatter or ribbon application depending on the need, increasing productivity and limiting materials needed on the job
VOC content < 50 g/L	Ultra-low VOC content formula approved for use in all OTC and SCAQMD regulated regions
No extra equipment required	Each canister set includes the applicator, hose, and accessories, eliminating the need for additional equipment or steps
Faster and easier application than mechanical fasteners	TRI-BUILT® EF ECO Gen II eliminates the potential for roof deck corrosion and disruption of building operations associated with mechanical fastening
Solvent-free formula	TRI-BUILT® EF ECO Gen II contains no solvents, making it suitable for use with EPS, and XPS insulation in addition to PolyISO
Patent-protected technology	TRI-BUILT's clean, chemical-free spray technology for canister adhesives, propelled by only naturally-occurring atmospheric gases
Contributes to energy savings*	By using TRI-BUILT® EF ECO Gen II instead of mechanical fasteners, thermal bridging is eliminated, ensuring maximum R-Value for insulated assemblies

*When used to adhere insulation boards and membranes without mechanical fasteners.

SURFACE PREPARATION

All work surfaces must be clean, dry, and free of dirt, dust, debris, oils, loose and/ or embedded gravel, unadhered coatings, deteriorated membranes, and other contaminants that could compromise adhesion or create an uneven surface. For recovery applications over gravel-surfaced built-up roofs (BUR), apply TRI-BUILT® Primer prior to the application of TRI-BUILT® EF ECO Gen II. For applications over fresh and/or non-oxidized asphalt, coal tar, or plastic film membranes, Surface Treatment may be required before applying TRI-BUILT® EF ECO Gen II.

STORAGE

Keep temperature of contents between 60°F to 90°F (16°C to 32°C). Bring the temperature of the 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!**

TRI-BUILT® EF ECO Gen II has a shelf life of 12 months when stored properly.

COLOR

Part 1: Amber

Part 2: Clear

The foamed adhesive will appear as a homogeneous light amber color with no streaking or marbling.

PACKAGING

TRI-BUILT® EF ECO Gen II is available in the following packages:

PACKAGE SIZE	PART #	CANISTERS/ PALLET
Part 1, 49 lb Canister	PG-SPECO2-A01TB	36
Part 2, 43 lb Canister	PG-SPECO2-B01TB	36

Part 1 and Part 2 canisters are packaged in individually labeled boxes. The Part 2 box includes one applicator, hoses for Part 1 and 2, four dual-purpose static mixers, a wrench, petroleum jelly, and a set of gloves. Dispose of or recycle the canisters in accordance with local regulations.

LIMITATIONS

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

TECHNICAL DATA

TYPICAL PHYSICAL PROPERTIES AND CHARACTERISTICS

PROPERTY	TYPICAL VALUES
Skin Time*	5-8 minutes
VOC Content	<50 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

APPLICATION PROPERTIES

Application Temperature	40°F (4°C) and above
Adhesive Application Temperature	70°F (21°C)
Storage Temperature	60°F to 90°F (16°C to 32°C)

* 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

APPROVALS



Insulation Adhesives for roofing systems
as to external fire exposure see
UL Directory of products certified for
Canada and UL Roofing Materials and
Systems Directory.
1WAS