

Pump Grade Adhesive ECO

TECHNICAL PRODUCT INFORMATION



STRONGHOLD™

StrongHold Pump Grade Adhesive ECO is a dual component, solvent free, low rise polyurethane foamable adhesive. It is available in dual pressurized canisters and dispensed with a disposable applicator assembly and included 25' hoses. StrongHold Pump Grade Adhesive ECO uses naturally found atmospheric gases as blowing agents and does not contain Global Warming Potential (GWP) propellants. This quick setting adhesive not only offers significant labor savings for the contractor but it is also approved for use in all US and Canadian markets that regulate ozone depleting substances.

FEATURES & BENEFITS

StrongHold Pump Grade Adhesive ECO also provides the following features and benefits:

- Compatible with the following substrates: polyisocyanurate, high density polyiso cover boards, expanded polystyrene, extruded polystyrene, mineral wool, gypsum cover board or roof deck, asphaltic cover boards, cementitious wood fiber, high density wood fiber, concrete, wood or steel decks, lightweight insulating concrete, modified bitumen membranes and base sheets (either sanded or granule surfaced), smooth or gravel surfaced asphalt built-up roof
- No extra equipment is required - all items needed for installation are included with each canister set
- The special spray nozzle can be used for spatter or ribbon application
- Eliminating or reducing mechanical fasteners on the roof eliminates thermal bridging and maximizes the potential R-value of the roof assembly
- Solvent-free, ultra low VOC, contains zero HFO, CFC, or HCFC - meets all national and state regulations
- Can typically be installed with little to no interruption to normal business operations

For any insulation or substrate not on the list, please contact BITEC Technical Services.

PACKAGING

StrongHold Pump Grade Adhesive ECO is available individually in 2 components.

Part 1: Boxed 49 lb canister

Part 2: Boxed 43 lb canister.

Each Part 2 box includes one applicator, 2 hoses (1 each for Part 1 and Part 2), 5 static mixers, 4 dual purpose static mixers, a wrench, petroleum jelly, and a set of gloves.

Quantity per pallet: Each component is shipped with 36 similar boxed canisters per pallet.

APPLICATION

The surface to be adhered must be clean, dry, and sound, as

well as free of dirt, moisture, oils, algae, or other contaminants that may interfere with proper adhesion. Carefully remove any loose material from the surface with a wire brush or scraper. Grease and oil should also be removed with environmentally safe solvents or an appropriate cleaner. In most cases, a high-pressure water blast will be sufficient to prepare the surface. As with all adhesives, proper preparation is key to yielding the optimal results.

For re-cover applications over gravel surfaced built-up roof, fresh asphalt or coal tar, or plastic film membranes, a primer may be required. Please contact BITEC Technical Services for recommended surface treatments.

Product application should be suspended immediately and our technical service personnel contacted if the results being obtained are less than desirable.

For best results, do not apply StrongHold Pump Grade Adhesive ECO if the ambient temperature is below 40°F (4°C). Do not apply to wet or improperly prepared surfaces. It is not recommended for use with insulation boards larger than 4' x 4'. Avoid use of warped or curled insulation boards - all insulation boards must lay flat on the roof surface for proper installation.

StrongHold Pump Grade Adhesive ECO is designed for use as an adhesive for adhering approved roof insulations to the structural roof deck, base sheets, or other insulation board stock. It is also designed for fleeceback membrane attachment.

StrongHold Pump Grade Adhesive ECO is dispensed in 1" - 1.5" (2.5 cm - 3.8 cm) wide beads or in a spatter application using our proprietary static mixer. The adhesive expands and rises to fill in minor surface irregularities.

Specific application methods may vary, depending on the roof system being installed, as well as the substrate and type of insulation being adhered. Please refer to the BITEC Roofing Products Installer's Guide for detailed application guidelines.

As with any roofing project, good roofing practices should always be followed.

STORAGE & HANDLING

Protect from sunlight and temperatures above 95°F (35°C). Keep from freezing. Before use, bring the temperature of the material up to 70°F (21°C).

Store materials locked up and in a well-ventilated, dry, and

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temperature conditioned location. Keep containers tightly closed with the valve side up. When stored in the original, unopened containers between 60°F (16°C) and 90°F (32°C), the recommended shelf life is 12 months from the date of manufacture.

PRECAUTIONS

StrongHold Pump Grade Adhesive ECO contains gas under pressure and may explode if heated. Can cause skin irritation, allergic skin reactions, serious eye irritation, and can be harmful if inhaled. Some components are suspected of causing genetic defects and may damage fertility or the unborn child. Can cause damage to organs through prolonged or repeated exposure. As with most industrial chemicals, avoid getting this product on or in you.

Safety first! Read all label information, SDS, and precautions before using. For safety information on our products, please visit www.bitec.com.

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Technical Schedule	
Part 1 Appearance	Amber
Part 2 Appearance	Clear
Skin Time (~70°F / 50% R.H.)	5-8 minutes
VOC	<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
Ambient Application Temperature	40°F (4°C) and rising
Adhesive Application Temperature	70°F (21°C)
Storage Temperature	60°F (16°C) to 90°F (32°C)

*Coverage rate estimates are based on total square feet of insulation attachment per kit (Part 1 and Part 2 combined). Rates are based on an application pattern of four 1" - 1.5" (2.5 cm to 3.8 cm) ribbons spaced 12" (30 cm) on center per 4' x 4' insulation board. When used over irregular surfaces, the coverage rate may vary.

All information is given in good faith but normal tolerances of manufacture and testing will apply. BITEC reserves the right to improve and change its products at any time without prior notice or advice. The use of BITEC products is determined by local conditions and individual requirements of each contract. In consideration of the many factors involved, BITEC cannot be held responsible for the improper application of its products and for conditions beyond its control. All claims filed against BITEC warranties will be subject to the provisions set forth at the date of the warranty issuance, and any addendum thereto. Under no circumstances will BITEC be held liable for any damage, whether personal injury or property damage, which occur during or after the application of any BITEC products.

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