

MILLENNIUM PG-1 LOW VISCOSITY INSULATION ADHESIVE

PRODUCT DATA SHEET

1-888-824-4455 | info@true-seal.com | www.true-seal.com



FEATURES:

- Replaces fasteners
- Essentially VOC free
- Solvent free

BENEFITS:

- Minimizes deck corrosion and eliminates thermal bridging
- Meets OTC and SCAQMD regulations
- Suitable for use with XPS and EPS insulation

DESCRIPTION:

Millennium PG-1 Low Viscosity Insulation Adhesive is a two component, essentially VOC free, all purpose, low rise, polyurethane foamable adhesive that contains no solvents and sets in minutes.

Application is quick and easy resulting in significant labor savings for the contractor. PG-1 Low Viscosity Insulation Adhesive is dispensed through the Millennium Cyclone 1 low pressure pump cart, or an approved low pressure pump cart which equally mixes Part 1 and Part 2 of the adhesive, providing a quality, consistent application each time.

BASIC USE:

PG-1 Low Viscosity Insulation Adhesive is designed for use as an adhesive for bonding approved roof insulations to a building's structural roof deck, base sheets, other insulation boards, and smooth or graveled built-up roof surfaces. It is dispensed 1/2" to 3/4" (1.3cm to 1.9cm) wide liquid beads that will quickly spread to a width 2-3 inches. PG-1 Low Viscosity Insulation Adhesive will expand and rise to fill minor surface irregularities.

SURFACE PREPARATION:

All work surfaces should be clean, dry, and free of dirt, dust, debris, oils, loose and/or embedded gravel, un-adhered coatings, deteriorated membrane and other contaminants that may result in a surface that is not sound or is uneven.

For re-cover applications over gravel surfaces apply Millennium Universal Primer prior to the application of PG-1 Insulation Adhesive. For applications over fresh and/or nonoxidized asphalt, coal tar or plastic film membranes, Millennium Surface Treatment may be required prior to the application of PG-1 Insulation Adhesive.

SAFETY:

Prior to working with this or any adhesive product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions.

LIMITATIONS:

- Do not apply to wet surface.
- Not recommended for use with insulation boards larger than 4' x 4' (1.2m x 1.2m).
- 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 (5°C).

STORAGE:

Keep temperature of contents between 45°F to 95°F (7°C to 35°C). Bring temperature of material to approximately 70°F (22°C) before use. Do not store in direct sunlight or above 95°F (35°C). Store boxes valve side up. KEEP FROM FREEZING!

COLOR:

Foamed adhesive will appear off white-light amber.



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APPROVED INSULATIONS AND SUBSTRATES:

- HD wood fiber
- Polyisocyanurate
- Perlite (upon approval)
- Polystyrene
- Gypsum cover board
- Asphaltic cover boards
- Concrete
- Gypsum roof deck
- Cementitious wood fiber
- Wood or steel
- Lightweight insulating concrete
- Modified bitumen membranes and base sheets
- (sanded or granule surfaced)
- Approved insulations (multi-layer applications)
- Smooth or gravel surface built-up roof (re-roof applications)

APPLICATION:

1. Note: material must be approximately 70°F (22°C) for best application. Material stored and utilized at cold temperatures will be prone to crystallization of Part 1. Open the box utilizing the convenient tear strip and remove the plastic bladder from the box utilizing the easy-lift handle. Remove cap on plastic bladder and replace by attaching the quick connect fitting supplied in each box. (Connect the black fitting to the Part 1 bladder and the gray fitting to the Part 2 bladder.) Place the plastic bladder on the Millennium Cyclone pump cart. Make sure that the bladder labeled "Part 1" is placed in the Cyclone tray labeled "Part 1" and that the bladder labeled "Part 2" is placed in the tray labeled "Part 2".
2. When using the Millennium Cyclone low pressure pump cart, connect the black Part 1 fitting to the black feed hose fitting. Connect the gray Part 2 fitting to the gray feed hose fitting. Operate the pump according to Manufacturer's instructions (see Cyclone Operator's Manual).
3. Utilize the empty cardboard container to capture adhesive pre-dispense or recycle empty cardboard containers.
4. Apply PG-1 Insulation Adhesive directly to the substrate using a ribbon pattern. Space the beads 12" (30cm) on center to achieve proper coverage rates for standard insulation attachment. Note: proper bead placement will be determined by your OEM Roof System Manufacturer's specifications.
5. Once PG-1 Insulation Adhesive is applied, allow the foam to begin rising and place the insulation board into the adhesive before the adhesive has skinned over. Eliminate uneven surfaces to ensure positive contact between the insulation boards, adhesive, and substrates.
6. Plastic bladders are designed for easy visibility to ensure adhesive maintains a 1:1 ratio. If material is not consumed at a 1:1 ratio stop application and check for blockage in hose or dispensing manifold.
7. Unused material can be applied at a later date. Properly clean and grease the dispensing wand and pump unit according to the manufacturer's recommendations.
8. PG-1 Insulation Adhesive provided in 15 or 50 gallon drum sets can be used with approved pump systems. The adhesives should be placed on a drum roller or agitated prior to use.

EQUIPMENT:

- Graco E-10 Reactor
- Graco Predator
- Adhesives Systems Technology GMP-075
- Adhesives Systems Technology PCH GMP-500

For a complete list of approved low pressure pump carts, substrates and insulation types, or additional information, contact our Technical Department.

PACKAGING AND COVERAGE:

Millennium PG-1 Low Viscosity Insulation Adhesive is available in the following packages:

Size	Part#	Sets/Pallet
5 gal (18.9L) box, Part 1 (A)	PG-IA5B-A01	18
5 gal (18.9L) box, Part 2 (B)	PG-IA5B-B01	18

Part 1 and Part 2 mixed through an approved low pressure pump cart will produce the following coverage rates:
5 gallon (18.9L) Kit: 2,000-2,500 sq ft (186m²-232m²)

Coverage estimates indicate total square feet of insulation attachment per kit. Rates are based on an application pattern of 4 (four) 1/2" - 3/4" (1.3cm - 1.9cm) ribbons spaced 12" (30cm) o.c. per 4' x 4' (1.2m x 1.2m) insulation board.

NOTE: A 1/2" - 3/4" (1.3cm - 1.9cm) wide uncured adhesive bead will produce a 2" - 3" (5.1cm - 7.6cm) wide cured adhesive bead that will rise approximately 3/4" - 1" (1.9cm - 2.5cm) above the substrate. Coverage rates may be lower when used over irregular surfaces and will vary depending on roughness.