



Product Description:

Rapid Set PG Foam is an all-purpose, solvent free, low viscosity, two-component, essentially VOC free, low rise, polyurethane foam adhesive designed to be installed in a pump grade applicator device.

Features:

- Non-penetrating attachment system
- Rapid application, sets in minutes
- No temperature restrictions, suitable for all climate zones
- Solvent free, no odors

Packaging:

5-gal (18.9L) box, Part 1 (A) | 18 per pallet
 5-gal (18.9L) box, Part 2 (B) | 18 per pallet
 15-gal (58.0L) drum, Part 1 (A) | 4 per pallet
 15-gal (58.0L) drum, Part 2 (B) | 4 per pallet
 50-gal (189.0L) drum, Part 1 (A) | 2 per pallet
 50-gal (189.0L) drum, Part 2 (B) | 2 per pallet

Colors:

Off white-light amber when dispensed

Use:

Rapid Set Adhesive is designed for use as an adhesive for Rapid Set™ PG Foam is designed for use as an adhesive for bonding approved roof insulations to a building's structural roof deck, vapor retarders, other insulation boards, and smooth or properly prepared existing roof surfaces.

Approvals:



Refer to individual assembly approvals for additional information and requirements.

Equipment:

Rapid Set™ PG Foam is dispensed through any of the application tools designed for 2-part urethane including the Patented Multi-Bead* and Multi-Bead Plus** applicators, the Patented Millennium Cyclone pump cart+ (by Garlock), or an approved low pressure pump cart which equally mixes Part 1 and Part 2 of the adhesive.

Image to Come

Product details stated are nominal as manufactured, and the results of tests and/or calculations and therefore are non-binding and do not represent a guarantee or warranted characteristics. User and/or designer are responsible for confirming suitable performance for specific application and conforming with all applicable laws and regulations.

Approximate Coverage*:

Rapid Set™ PG Foam	Ribbon Rate of Application*	Ribbon Coverage**
5-gal box kit	0.75" - 1.0" bead, @ 12" o.c	2,000-2,500 sq. ft..
15-gal drum kit	0.75" - 1.0" bead, @ 12" o.c	6,000-7,500 sq. ft..
50-gal drum kit	0.75" - 1.0" bead, @ 12" o.c	20,000-25,000 sq. ft..

*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 four (4) ribbons ¾" - 1" (1.9-2.5 cm) wide, spaced at 12" (30 cm) o.c. per 4' x 4' (1.2m x 1.2m) insulation board. Coverage rates may vary based on ambient temperature, substrate condition and application methods used.

Acceptable Substrates¹:

Only the following substrates are acceptable to receive the Rapid Set PG Foam:

- Brick/Masonry/CMU, Cementitious Wood Fiber
- Concrete, Gypsum, and Lightweight Insulating Concrete
- Wood (Dimensional Lumber, OSB, Plywood)
- Steel - Minimum 22-gauge
- Approved Insulations (IB Energy Board II, III, IB HD ISO, other approved polyiso, EPS, XPS)
- Most gypsum coverboards rated for adhered applications.
- Smooth or granulated asphaltic and modified bitumen roofs

¹Substrates and all surfaces must be clean, dry, and free of dirt, dust, debris, oils, loose and/or embedded gravel. IB Roof Systems recommends insulation adhesion pull tests in accordance with ANSI/SPRI IA-1 prior to beginning work to confirm acceptable uplift resistance.

Temperature Guidelines/Storage & Handling:

Store in a dry area. Protect From Freezing! Optimum chemical storage temperature is 60-85°F (16-29°C). Bring temperature of material to approximately 70°F (21°C) for approximately 48 hours before use. Do not store in direct sunlight or above 90°F (32°C). Store boxes valve side up.



Rapid Set™ PG Foam can be applied when both ambient and substrate surface temperatures are at 25°F (-4°C) and rising provided the adhesives are properly stored.

IMPORTANT NOTE: Storing the adhesive below the recommended application temperature range prior to use can have a negative effect on product performance which may include reducing the expected coverage rates of the adhesive, delayed or extended reaction and set up times and in some cases can alter the mix of the two components.

In the event the adhesive is exposed to cooler temperatures for an extended period, it must be brought back up to the recommended application temperature prior to use. The adhesive should never be allowed to freeze. Material stored and utilized at cold temperatures will be prone to crystallization of Part 1.

Limitations:

- Do not use when ambient, substrate or product temperatures are outside specified temperature ranges. Do not use during inclement weather, on wet surfaces or on any roof deck showing signs of deterioration or loss of structural integrity. Do not use after the expiration date.
- Approved existing roof surfaces must be clean, dry, smooth and adequately attached to resist wind loads.
- Not recommended for use with insulation boards larger than 4'x4'. Do not use warped or curled insulation boards.
- All insulation boards must lay flat upon the roof surface.
- Do not apply when ambient temperatures are below 40°F (4°C).

Surface Preparation:

Refer to IB Specifications and Construction Details for additional installation instructions. All surfaces should be dry, free of dirt, dust, debris, oils, loose gravel, un-adhered coatings, deteriorated membrane and other contaminants that may result in a surface that is not sound or uneven.

Application:

1. Read all instructions, Product Guidelines, and SDS prior to use of any product.
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 Rapid Set™ PG Adhesive directly to the substrate, using a ribbon pattern. Space 3/4" to 1.0" (1.9 to 2.5 cm) wide beads, 12" (30 cm) o.c., to achieve proper coverage rates for insulation attachment. As adhesive is applied, immediately place insulation board into wet adhesive. Do not allow the adhesive to skin over. Eliminate uneven surfaces to ensure positive contact between the insulation board and substrate. Note: Alternate bead spacing ribbon patterns may be required in prescriptive enhancement zones or as necessary to achieve desired uplift resistance. This will reduce coverage rates due to increased material usage.
5. As adhesive is applied, allow it to begin rising then place insulation board/membrane into wet adhesive and roll membrane with a weighted roller to ensure positive contact between membrane, adhesive and substrate. Do not allow the adhesive to skin over. Eliminate uneven surfaces to ensure positive contact between the insulation board and substrate.
6. When using the bladder packaging properly clean and grease dispensing wand and pump unit according to the pump manufacturer's recommendation.
7. 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.
8. Rapid Set™ PG Foam provided in 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.
9. Caution: Rapid Set™ PG Foam reacts quickly in warm, moist climates. Applicator must set insulation boards quickly in these conditions.

Safety:

This product is flammable. Adhesive contains materials which could be harmful if mishandled. Vapor from applied adhesive is heavier than air and may travel along the ground or through ventilation and may be ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources. Residual vapors may ignite even though adhesive is not being actively applied. Keep away from open flame. Use in well-ventilated areas. Avoid inhalation of spray mist or vapors. Appropriate PPE, gloves and goggles must be worn when using this product. Never aim the spray gun at people. Read label and safety data sheet prior to use for complete safety, precaution and warning information. Read all instructions, and SDS (Section 8) prior to use of any product.

Go to <https://ibroof.com/tds> for the most up-to-date version of this document.

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