



# HIGH VELOCITY<sup>®</sup> INSULATION ADHESIVE PG

HIGH VELOCITY INSULATION ADHESIVE PG (17D)

Order No. A187\*

\*This order number is for one case of two (one Part 1 and one Part 2) five gallon boxes per kit. Contact Customer Service for additional packaging options.

## DESCRIPTION & APPLICATION

High Velocity Insulation Adhesive PG (HVIA PG) is highly elastomeric one-step (two part), VOC compliant, all-purpose foamable adhesive that contains no solvents and sets in minutes. HVIA PG is packaged in two (2) five gallon (18.9 L) component boxes per case. The HVIA PG is dispensed through pump carts (see pump cart options below) which equally mixes Part 1 and Part 2 of the adhesive providing a quality, consistent application each time.

HVIA PG is applied directly to the properly prepared, dry (not damp), clean substrate which is defined as, but is not limited to: free of dirt; dust; debris; oils; loose and/or embedded gravel; unadhered coatings; deteriorated existing membrane; any other contaminates that may result in a surface that is not sound or is un-even and affects the adhesion of the HVIA PG and adhesive to the substrate and insulation board.

The HVIA PG ribbon size is one-half ( $\frac{1}{2}$ " ) inch (13 mm) minimum to three-quarter ( $\frac{3}{4}$ " ) inch (19 mm) or that additional amount of adhesive and ribbon size to provide positive contact between the substrate and the Approved thermal insulation or cover board (rigid board). On-site applicator must make job-specific application determinations to ensure Soprema acceptable bonded boards.

The FM Approvals Field Roof Area pattern is twelve (12") inches (305 mm) o.c. FM Approvals Perimeter and Corner Patterns depend upon the individual project building velocity pressures as determined by the most current ASCE Design Calculation Document. Contact Soprema for these Patterns and for Approved insulation adhesive patterns for Warranty Wind Rider Projects.

Pump cart options: Weather-Tite Cyclone, Weather-Tite Cyclone II, Graco E-10 Reactor, Graco Predator, Adhesives Systems Technology GMP-075 or Adhesives Systems Technology PCH GMP-500.

## APPROVED INSULATIONS\* & DECK SUBSTRATES

- Sopraboard, one-eighth ( $\frac{1}{8}$ " ) inch (3.2 mm) minimum
- High Density Wood Fiber Board (HDWFB) coated six sides, one-half ( $\frac{1}{2}$ " ) inch (13 mm) minimum
- HDWFB, one-half ( $\frac{1}{2}$ " ) inch (13 mm) minimum
- Polyisocyanurate, one and one-half ( $1 \frac{1}{2}$ " ) inch (38 mm) minimum
- Polystyrene, one (1" ) inch (25 mm) minimum
- Plywood, one-half ( $\frac{1}{2}$ " ) inch (13 mm) minimum, wood plank, three-quarter ( $\frac{3}{4}$ " ) inch (19 mm) minimum or structural use panels, seven-sixteenth ( $\frac{7}{16}$ " ) inch (11 mm) minimum
- ASTM C 1177 or C 1278 gypsum board, one-quarter ( $\frac{1}{4}$ " ) inch (6.4 mm) minimum
- Vapor retarders, Sopralene 180 SP 3.5mm (heat welded only); Elastophene HD, Elastophene 180 Sanded, Sopralene 180 Sanded, Soprabase, Modified Sopra G, hot mopped or adhered with Soprema cold adhesive to properly prepared, clean, dry and primed (where required) substrates or these membranes and base sheets are mechanically fastened to acceptable substrates prior to the application of the cold applied roof assembly. Contact Soprema for special installation requirements; see published Specifications and Approved Details.



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## APPROVED INSULATIONS\* & DECK SUBSTRATES

\*NOTE: When insulation and cover boards are thicker than three-quarter ( $\frac{3}{4}$ ) inch (19 mm), the board size is maximum four feet by four feet (4' x 4') feet (1.2m x 1.2m). Cover boards one-half ( $\frac{1}{2}$ ) inch (13 mm) or less can be installed in four feet by eight (4' x 8') feet (2.4m x 1.2m) dimensions.

STRUCTURAL DECKS: FM Approvals Listed Structural Deck types including concrete, gypsum, cementitious wood fiber and wood. FM Approvals Listed Steel Deck types require a mechanically fastened and approved thermal barrier prior to using the HVIA PG material to adhere the next layer of insulation or cover board.

Contact Soprema for special installation requirements. See published Specifications and Approved Details.

NOTE: DO NOT PRIME SUBSTRATES WITH ASPHALTIC PRIMERS. HIGH VELOCITY INSULATION ADHESIVE PRIMER MAY BE REQUIRED WHEN A SUBSTRATE IS HIGHLY ABSORBENT.

## COVERAGE

The coverage estimate for a five gallon kit is 2,000 to 2,500 square feet (186 m<sup>2</sup> to 232 m<sup>2</sup>). Rates are based on an application pattern of four (4) one-half ( $\frac{1}{2}$ ) to three-quarter ( $\frac{3}{4}$ ) inch (13 to 19 mm) ribbons spaced twelve (12") inches (305 mm) on center.

## LIMITATIONS DURING APPLICATIONS

Coverage rates may change and require greater amounts of adhesive when uneven or irregular substrates are encountered. Eliminate uneven surfaces to ensure positive contact between the insulation board and substrate. As adhesive is applied, allow the adhesive to rise prior to placing insulation board into wet adhesive. Do not allow the adhesive to skin over before installing the board. Apply continuous and immediate pressure across the entire roof insulation board surface to ensure full contact with the ribbon adhesive and substrate surface. Weight may be needed on the board surface until the adhesive ribbons are cured. Foot traffic should be avoided over the insulation boards as it can break the curing process bond between the freshly applied ribbon adhesive and the deck substrate surfaces and/or additional insulation layer surface(s). The length of time (Set time) until the adhesive provides sufficient bond to support foot traffic will vary depending on environmental conditions such as ambient temperature, humidity, wind, clouds, sun, etc. However typical set-time will vary from thirty (30) minutes to several hours. Do not apply to a wet or damp surface.

STORAGE: Keep temperature of contents between 45°F - 95°F (7°C – 35°C) 24 hours prior to use. Bring temperature of material to 70°F (22°C) just before use. Do not store in direct sunlight or high temperatures 95°F (35°C) and higher. Shelf life is twelve (12) months from the date of manufacture when unopened and properly stored. Store boxes valve side up. Do not apply when temperatures are below 40°F (5°C).

## APPROVALS

See Underwriters Laboratories Inc. File #R11436, FM Approvals, ICC/ES, Miami-Dade County or Florida Building Code Product Approval Listings for current Approved Roof Assembly combinations.

## WARRANTY

Contact your local SOPREMA representative for project warranty offerings.