



HIGH VELOCITY[®] INSULATION ADHESIVE III

HIGH VELOCITY INSULATION ADHESIVE III (17B)

Order No. A176*

*This order number is for one case of four (dual set) cartridges.
Contact Customer Service for information on bulk packaging sizes.

DESCRIPTION & APPLICATION

High Velocity Insulation Adhesive-III (HVIA-III) is highly elastomeric one-step (two part), VOC compliant, all-purpose foamable adhesive that contains no solvents and sets in minutes. HVIA-III is packaged in four (4) fifteen hundred milliliter (1500 ML) component caulk gun cartridges (dual set) per case. This static-mixing tip Application Method decreases material waste and provides a coverage rate of between four hundred and six hundred (400 - 600) square feet (37 - 56 m²) per carton (See limitations below). In high production applications, a multi-port two-component static-mixing tip adhesive applicator is used to insure proper application and wetting of the substrate/board before the adhesive ribbons can skin over.

HVIA-III is applied directly to the properly prepared, dry (not damp), clean substrate which is defined as, but is not limited too: 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-III and adhesive to the substrate and insulation board.

The HVIA-III ribbon size is one-half (½") inch (13 mm) or the amount of adhesive and ribbon size necessary 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.

APPROVED INSULATIONS* & DECK SUBSTRATES

- Sopraboard, one-eighth (1/8") inch (3.2 mm) minimum
- High Density Wood Fiber Board (HDWFB) coated six sides, one-half (½") inch (13 mm) minimum
- HDWFB, one-half (½") inch (13 mm) minimum
- Polyisocyanurate, one and one-half (1 ½") inch (38 mm) minimum
- Polystyrene, one (1") inch (25 mm) minimum
- Plywood, one-half (½") inch (13 mm) minimum, wood plank, three-quarter (¾") inch (19 mm) minimum or structural use panels, seven-sixteenth (7/16") inch (11 mm) minimum
- ASTM C 1177 or C 1278 gypsum board, one-quarter (¼") 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:

1. FM Approvals Listed Structural Deck types including concrete, gypsum, cementitious wood fiber and wood.
2. FM Approvals Listed Steel Deck types require a mechanically fastened and approved thermal barrier prior to using the HVIA 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.

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, place insulation board into wet adhesive. Do not allow the adhesive to rise or 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 surfaces(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. Moisture cured adhesive has a slow set-time in conditions with low ambient moisture content such as arid or cold climates while the adhesive cures quickly in warm, moist conditions. 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 65°F - 85°F (18°C – 29°C) 24 hours prior to use. Do not store in direct sunlight or high temperatures 90°F (32°C) and higher.

Shelf life is eight (8) months from the date of manufacture when unopened and properly stored.

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.