

HYBOND PLUS

TECHDATASHEET

INSULATION ADHESIVE

PRODUCT DESCRIPTION

HyBond Plus Insulation Adhesive is a one part pourable, elastomeric, 100% solid, solvent free, VOC compliant, moisture cured, low rise urethane foam adhesive.

HyBond Plus was developed for the purpose of bonding approved insulation to a buildings structural roof deck, other insulation boards, and smooth built up roof (non-graveled) surfaces for recover applications.

HyBond Plus eliminates minor surface irregularities and the need for mechanical fasteners that can often cause damage to the roof deck. Adhering insulation with HyBond Plus eliminates the noise in installation as well as the unsightly fasteners protruding through the underside of exposed decks and creating thermal bridging known to be detrimental to roofing systems. HyBond Plus also eliminates mechanical attachment concerns such as corrosion, fastener back-out and the multitude of fastener selections for each deck type.

HyBond Plus should be stored indoors at a minimum of 70° F and for a period of no less than 24 hours prior to using in cool or cold temperatures.

HyBond Plus is packaged in 5-gallon containers. Simply remove the lid, dispose of any skin that has developed on the surface and apply in ribbons using the selected application method.

LIMITATIONS

HyBond Plus Insulation Adhesive should not be applied to a wet surface. All surfaces must be clean and dry prior to the application of HyBond Plus.

- HyBond Plus Insulation Adhesive should not be applied to single ply membranes.
- HyBond Plus should not be applied when the temperature is below 40° F.
- HyBond Plus must be stored indoors at 70° F for 24 hours prior to use in cold temperatures.
- HyBond Plus is not recommended for use with insulation boards larger than 4' x 4' (Except HyGlass recovery board).
- Do not attempt to thin or cut the HyBond Plus Insulation Adhesive in any way.
- Should a skin occur over the surface of the material in the container, simply remove and discard, material below the skin will be acceptable for use.
- Use mineral spirits or Xylol to clean up wet materials, hardened materials must be scraped off.
- Shelf life is one year when HyBond Plus is stored at standard temperature.

INSTALLATION

HyBond Plus has a recommended coverage rate of 800-1,000 square feet per 5 gallon pail over concrete, steel, gypsum, approved insulation's and base sheets. Coverage may be slightly lower over irregular surfaces, retrofitting and when using different application methods. HyBond Plus is applied in ribbons (approx. 1/2" to 3/4" diameter) 12" on center to achieve proper coverage rates, four ribbons per four foot wide board. As adhesive is applied immediately place insulation board into the wet adhesive. Do not allow the adhesive to skin over. Eliminate uneven surfaces to ensure positive contact between the

insulation board and substrate. In cold temperatures, or anytime a quicker set is desired, spray a mist coat of HyBond Plus Foam Accelerator to freshly applied adhesive. HyBond Plus can be poured into ribbons in various ways:

- From the 5 gal. container after bending the pouring edge of the container into a "V" creating a job fabricated pouring ladle.
- A pouring can designed as a crack-filling tool, usually used with hot materials on roofing and road projects, ensure opening is at least 1".
- A multi-port adhesive applicator, with the holding tank and moving parts treated with a silicone mold release.
- Although not sold by Hyload the applicator and silicone mold release are currently available through your Hyload Specialist.

Using the adhesive spreader properly can enable the applicator to apply the HyBond Plus at the specified coverage rates with the proper spacing. Proper use of the spreader can also reduce application time and save man-hours. Reference the Adhesive applicator product literature available through your representative.

When using the adhesive applicator properly the HyBond Plus is applied, at 800-1,000 square feet per 5 gallon pail, in four ribbons of adhesive approximately 1/2" to 3/4" diameter 12" on center.

After the four HyBond Plus adhesive ribbons are applied the insulation boards are immediately stepped in place so that the adhesive contacts the insulation boards from one end of the board to the other while the adhesive is still wet with no skin on it. Additionally the adhesive ribbon on each side of the insulation board must be a maximum of 6" from both edges of the board.

HYLOAD
ROOFING SYSTEMS

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INSTALLATION Con't.

Insulation boards must butt to one another tightly and be installed in a staggered joint method.

When a sufficient amount of insulation is installed, begin the roof system application in accordance with the project specification. No additional "cure time" is required for the HyBond Plus insulation adhesive.

INSULATION & SUBSTRATES

Approved Insulations:

HyBond Plus Insulation Adhesive can be used to bond the following approved insulation types to approved substrates.

INSULATION TYPE	MIN. THICKNESS
Isocyanurate	1.2"
HyGlass	1/8" & 3/16"
WoodFiber (Coated six sides)	25/32"
Perlite	3/4"
DensDeck	1/4" & 1/2"
Tapered 1/2" (Approved types)	

Approved Substrates:

(Do not use on CTEM product surfaces, use HyBond for those applications)

Structural Roof Decking:

All decks must be within the manufacturers specifications and meet the industry guidelines for the proposed application.

- Directly adhered to; Concrete, Steel, Gypsum
- With base sheet: Cemeticous Wood Fiber (Tectum)
- Base sheets, Vapor retarder
- Approved insulation's (multi-layer applications).
- Smooth built-up roof surfaces (re-roof applications).

AVAILABILITY AND COST

HyBond Plus is available nationally. Contact the Hyload Corporate Sales Office for the name of the Hyload Specialists in your area.

WARRANTY

Hyload makes several high performance product warranties available to its customers. Contact the Hyload Corporate Sales Office directly for details.

TECHNICAL SERVICES

All questions related to technical items not covered specifically in the Tech Data Sheet or product literature should be referred directly to your local Hyload Sales Specialist.

This Hyload Tech Data Sheet provides general technical data and guidelines regarding the nature and uses of the HyBond Plus Insulation Adhesive. This information is not intended, and should not be used, as a design or installation specification for any particular project. Neither the publication of this Tech Data Sheet nor any information contained herein constitutes or implies the acceptance by Hyload of any particular roof design, installation procedure, or roof component. This Tech Data Sheet is provided for general information purposes only. No statement contained herein is intended or shall be construed as an expressed warranty.

MAINTENANCE

HyBond Plus Insulation Adhesive does not require maintenance.

HYBOND PLUS INSULATION ADHESIVE PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE
Color		off-white/amber
Tensile Strength	ASTMD412-92	250psi
Density	ASTMD1875-90	8.5lb/gallon
Viscosity	ASTMD2556-93a	22,000-60,000cp
Peel Strength	ASTMD903	17lb/inch
Flexibility	ASTMD816-82	pass@-70°F
Storage Life		12 months in unopened pails