

## OVERVIEW & FEATURES

Insul-Lock HR is a highly elastomeric, one step, VOC compliant, high rise roof insulation adhesive that contains no solvents and sets in minutes. Insul-Lock HR is designed to give you the benefits of a two component insulation adhesive without the errors of improper mixing. Insul-Lock HR was designed for bonding approved roof insulations to a building's structural roof deck, base sheets, other insulation boards, smooth and mineral roof systems or properly prepared coal tar and asphalt graveled built-up roof surfaces.

**Ease of Installation** - Insul-Lock HR is an easy-to-apply, self contained, two-component insulation adhesive that does not require manual or mechanical mixing. Mixing is done through a static mixing tip. Simply apply Insul-Lock HR in 1/4 in. – 1/2 in. (0.64 cm – 1.27cm) wide beads 12 in. o.c. per 4 ft. x 4 ft. insulation board. Simply place, do not slide, the boards into the adhesive.

**High-Rise** - Insul-Lock HR provides an alternate attachment method for the application over gravel roofs. Insul-Lock HR will rise to adhere insulation board to properly prepared gravel roof systems, eliminating the labor cost involved in fastening to all types of decks.

**No Deck Penetration/No Fastener Backout** - Leaving the deck completely intact lessens the possibility of structural damage and moisture entry while preventing the disruption of interior operations. Eliminating fasteners not only prolongs the life of the waterproofing system, but it also eliminates the potential for thermal bridging and a future cause of leaks.

**Versatile and Low Odor** - Insul-Lock HR is compatible with a variety of insulation types that are listed on the back. It provides a fast set in a variety of temperatures. The low odor nature of this product makes it a perfect fit for sensitive environments, such as schools and hospitals and a must for all environmentally conscious facilities. Insul-Lock HR is a VOC compliant solution that will not disrupt building occupants.

## APPLICATION

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

Prior to the application of Insul-Lock HR over gravel or mineral re-cover applications, be sure to remove all gravel or debris before applying Insul-Lock HR Universal Primer at a rate of 150 – 250 sq. ft. (13.94 – 23.22 m<sup>2</sup>) per gallon.

Insul-Lock HR in new construction or mineral re-cover applications is applied at a rate of 600 sq. ft. (55.74 m<sup>2</sup>) per case. Over irregular surfaces, the coverage rate will vary and may be reduced to 300 – 400 sq. ft. (27.87 – 37.16 m<sup>2</sup>) per case. Perimeters and corners require more adhesive, see application guide.

Snap off the molded cap on the top of the adhesive cartridge and screw on the mixing tip. Attach a mixing tip to the threaded mixing head. Place the cartridge into the appropriate Insul-Lock HR applicator. Apply Insul-Lock HR adhesive directly to the substrate, using a ribbon pattern. Space 1/4 in. – 1/2 in. (0.64 cm – 1.27cm) wide beads, 12 in. o.c. (30.5 cm), to achieve proper coverage rates for insulation attachment. As Insul-Lock HR 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. Unused material can be applied at a later date by simply plugging the cartridges (with provided half moon plugs) and using a new Insul-Lock HR cartridge tip.

## STORAGE

Insul-Lock HR Insulation Adhesive has a shelf life of 12 months. Insul-Lock HR should be stored at room temperature 65°F to 85°F (18°C to 29°C) for at least 24 hours prior to using the product.

## PRECAUTIONS

- Do not apply to a wet surface.
- Not recommended for use with insulation boards larger than 4 ft. x 4 ft. (1.22 m x 1.22 m).
- Do not use warped or curled insulation boards. All insulation boards must lay flat upon the roof surface.
- Do not apply Insul-Lock HR Adhesive over a smooth or sanded APP or single-ply roof surface.

# Insul-Lock® HR

Technical Data	Insul-Lock HR
<b>Tensile Strength</b> (ASTM D 412)	250 psi
<b>Density</b> (ASTM D 1875)	8.5 lbs./gal.
<b>Viscosity</b> (ASTM D 2556)	22,000 – 60,000 cP
<b>Peel Strength</b> (ASTM D 903)	17 lb./in.
<b>Flexibility</b> (ASTM D 816)	Pass @ -70°F (-56.7°C)
<b>Shelf Life</b>	1 year
<b>Packaging</b>	4 – 50.7oz.(1.5l) Cartridges/Case 600 sq. ft. (55.74 m <sup>2</sup> ) case

## COVERAGE

Existing Roof Surface	Board Size	Bead Size
<b>Smooth</b> 600 sq. ft. (55.74 m <sup>2</sup> )/Case	4x4	1/4 in. – 1/2 in. (0.64 – 1.27 cm) beads 12 in. (30.5 cm) o.c.
<b>Irregular</b> 300–400 sq. ft./case (27.87 – 37.16 m <sup>2</sup> ) Coverage rates may vary	4x4	1/4 in. – 1/2 in. (0.64 – 1.27 cm) beads 12 in. (30.5 cm) o.c.

For specific recommendations and coverage rates, please contact your local Garland Representative or Garland Technical Service Department.

## APPROVED DECKS AND INSULATION

### Decks

Structural concrete  
Gypsum with nailed base sheet  
Tectum with nailed base sheet  
Steel  
Lightweight concrete with nailed base sheet  
Treated wood with nailed base sheet

### Insulation

Wood Fiber  
Polyisocyanurate  
Perlite (min. 3/4 in.)  
SecuRock  
Dens Deck  
Polystyrene

Please see the most current Factory Mutual RoofNav for the most up to date system approval.

Eco Facts	Insul-Lock HR
<b>VOC</b>	0 g/l



The GreenLock Membrane Adhesive product is protected by U.S. Patent #7,772,301.

For more information, visit us at: [www.garlandco.com](http://www.garlandco.com)

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

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