

# Hi-RES GLU

## HIGH PERFORMANCE RESILIENT ADHESIVE



### DESCRIPTION




Hi-RES GLU is a very aggressive, high tack pressure sensitive adhesive engineered for the installation of a wide variety of resilient and modular floor covering types. Hi-RES GLU is solvent free and offers excellent moisture, pH, and plasticizer resistance complimenting its strong and durable bond between the recommended floor coverings ensuring a long lasting installation.







### APPROVED FLOOR COVERING

- Luxury Vinyl Tile (LVT)
- Luxury Vinyl Plank (LVP)
- Modular Carpet Tile Approved Backings: non-PVC, Polyolefin, Felt; up to 99% RH and up to pH:12, PVC; limited to 95% RH and up to pH:10
- Vinyl Composite Tile (VCT)
- Vinyl sheet and Fiberglass Reinforced Sheet Flooring, Sheet Goods limited to 90% RH and pH:10
- Double Glue Down Carpet Installations, pad to substrate
- Solid Vinyl Tile and Plank

### TROWELS & COVERAGE

Floor Covering	Trowel Recommendation	Estimated Coverage
LVP, LVT, VCT, SVT, Modular Carpet Tile	<b>U Notch:</b> 1/16" x 1/32" x 1/32" 	Up to 260 sqft/gallon
Homogeneous and Heterogenous Sheet Goods (porous substrate), double stick pad to substrate	<b>Square Notch:</b> 1/16" x 1/16" x 1/16" 	Up to 180 sqft/gallon
Resilient Sheet (fiberglass) and Carpet Tile	<b>Paint Roller:</b> 3/8" Short Nap 	Up to 360 sqft/gallon

### PROPERTIES

-  **Relative Humidity:**  
Up to 99%
-  **pH Range:**  
7-12
-  **Dry Time:**  
30+ Minutes
-  **Working Time:**  
12 Hours
-  **Cure Time:**  
24 Hours
-  **Foot Traffic:**  
Immediate
-  **Rolling Loads:**  
24 Hours

**DISCLAIMER:** Users should determine suitability of this information or product for their own purpose or application. Manufacturer is not responsible for the misuse of this product. This adhesive is not a moisture barrier and should not be installed/treated as such. This adhesive is not a substrate moisture sealer and does not form a protective barrier and is only warranted to maintain an adhesive bond when used over substrates specified in this document. ASTM 2659 impedance readings that exceed 4% may void the warranty.



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## CLEANUP

- While wet, use a cloth and soapy water to remove wet adhesive.
- When adhesive is dry, use denatured alcohol or appropriate adhesive remover.
- Always check for compatibility on a piece of scrap flooring.

## STORAGE

- This product should be stored at temperatures between 50°-90° F.
- This product has a shelf life of 2 years.

## LIMITATIONS

- Not for exterior installations.
- Not for use to encapsulate asbestos.
- Not for use when moisture exceeds 4% per ASTM F2659, or Relative Humidity of concrete substrate exceeds 99% (ASTM F2170).
- Not for use where hydrostatic pressure exists.
- Do not use if substrate pH is greater than 12.
- Concrete substrate must be a minimum of 5° F above dew point.
- Substrate temperature must be between 60°-90° F – 30-65% RH.
- Do not install over chemically abated substrates.
- Do not install flooring in wet adhesive over a non-porous substrate.
- Do not install over adhesive residue or cutback adhesive.
- Do not allow product to freeze.
- Do not use with dimensionally unstable floor coverings.
- Do not use over concrete substrates which have been treated with silicates, either topical or entrained.

## SUITABLE SUBSTRATES

- Concrete substrates (at least 28 days old).
- Below grade installations are limited to 95% RH and 10 pH.
- Cement-based self-levelers and patching compounds.
- APA underlayment grade plywood and OSB (per manufacturer recommendation).
- Cement backer board.
- Cement terrazzo (properly prepared with waxes and surface finishes removed).
- Existing Vinyl Composite Tile (VCT) free of wax and sheet flooring.
- Properly primed gypsum based underlayments that meet the ASTM F2419 requirements for compressive strength.
- Fully secured cork underlayments.
- Concrete and radiant heated subfloors (should be turned off 24hrs prior to installation).
- Radiant heated substrates – Maximum 85° F.

## SUBSTRATE TESTING

- RH: 99% [ASTM F2170] With Limitations
- Precautionary Note: Hi-RES GLU is not a moisture mitigation system and should not be used as one. It simply means that the adhesive will hold up under high moisture conditions, however floor covering may have adverse effects.
- pH: Between 7-12 [ASTM F710] With Limitations

**PRECAUTIONARY NOTE:** THIS PRODUCT DOES NOT FORM A MOISTURE VAPOR BARRIER AND WILL NOT PROTECT FLOOR COVERING FROM HIGH MOISTURE AND pH.

**PLEASE CONSULT LIGHTHOUSE ADHESIVES' TECHNICAL DEPARTMENT FOR SUBSTRATES NOT LISTED.**

## SURFACE PREPARATION

**NOTE:** FOLLOW FLOORING MANUFACTURERS GUIDELINES. SUBSTRATES MUST BE PREPARED PER ASTM F710 BUT NOT LIMITED TO THE FOLLOWING:

- Concrete substrates must be dry, smooth, solid, structurally sound and level.
- Substrates should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers; topical or entrained, loosely bonded toppings, adhesive residue, loose particles, and any other substance or condition that may prevent or reduce adhesion.
- Fill all surface cracks, grooves, depressions, non-moving joints with a moisture resistant patching or self-leveling compounds.
- Substrate, adhesive and floor covering must be acclimated in an enclosed building with HVAC in operation for 48 hours prior, during, and continuously after installation is complete.
- Ambient temp must be between 60°-90° Fahrenheit.
- Relative humidity must be between 30-65% during and following installation.
- When installing over radiant heated subfloors, heat should be turned off 24 hours before, during, and after installation. When turning radiant heat back on, do so in 5° increments per hour to desired heat temperature. Floor temperature should not exceed 85° Fahrenheit.
- Please use B4 GLU for overly porous substrates (i.e. gypsum) as per ASTM F2419.

## INSTALLATION INSTRUCTIONS

Follow flooring manufacturer's guidelines for layout, design and any special precautions for installation. **DISCLAIMER: FOLLOW THESE INSTRUCTIONS COMPLETELY OR DO NOT USE THIS PRODUCT.**

1. *If unfamiliar with a product, always perform a bond test. Spread a small area of adhesive and install the desired floor covering into the adhesive to ensure the desired bond is achieved.*
2. After surface preparation, spread adhesive using recommended trowel or roller as needed for desired flooring type.

### DRY-SET PSA (porous and non-porous substrate)

- After spreading the adhesive using the recommended trowel, wait 30-60 minutes for adhesive to flash off. When ready the adhesive will turn translucent and will not transfer to fingertips when touched.
- Working time: Up to 12 hours depending on ambient conditions and porosity of the substrate.
- Only apply as much adhesive as can be installed within a 12 hour period. Protect the adhesive from dust and debris, which will inhibit proper adhesive bond and decrease tack.

### SEMI-WET SET (porous substrates only)

- After spreading the adhesive using the recommended trowel, wait 15-25 minutes for adhesive to flash off installing sheet vinyl into the semi-wet adhesive with transfer to floor covering backing.
  - Working time: 20-30 minutes depending on ambient conditions and porosity of the substrate.
  - Be sure to install flooring during the working time of the adhesive.
3. After installation, roll flooring with 75-100lb roller to ensure proper adhesive transfer.
    - Sheet goods: Roll from the center towards the perimeter to allow expelling of trapped air.
    - Check flooring after 2 hours and roll again if necessary.
    - *Wait 6 hours before heat welding on sheet goods*
    - *Wait 48 hours before wet mopping, stripping, or finishing the floor*

**NOTE:** Foot traffic may be allowed immediately when installing into dry adhesive. For installations into wet or semi-wet adhesive, allow 12 hours before traffic.

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