



**Lighthouse**  
ADHESIVES

**Un1 GLU**  
PRESSURE SENSITIVE ADHESIVE



## DESCRIPTION

Un1 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. Un1 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.



**pH**  
7-12



**RH**  
Up to 99%



**Dry Time**  
30+ min



**Working Time**  
12 hrs



**Cure Time**  
24 hrs



**Rolling Loads**  
24 hrs






**Foot Traffic**  
Immediate Occupancy

## 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

## Required Applications & Coverage

FLOOR COVERING	TROWEL RECOMMENDATION	ESTIMATED COVERAGE
LVP, LVT, VCT, SVT, Modular Carpet Tile	1/16" x 1/32" x 1/32" U Notch 	Up to 260 sqft/gallon
Homogeneous and Heterogenous Sheet Goods (porous substrate), double stick pad to substrate	1/16" x 1/16" x 1/16" Square Notch 	Up to 180 sqft/gallon
Resilient Sheet (fiberglass) and Carpet Tile	3/8" Short Nap Paint Roller 	Up to 360 sqft/gallon

**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.



## 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/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:** Un1 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.

## 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.

## 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° Fahrenheit.
- This product has a shelf life of 2 years

**LIGHTHOUSE ADHESIVES**

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**GLURU 1-844-GLURU-4U**

TECHNICAL  
DEPARTMENT