



**Lighthouse**  
ADHESIVES

**EnG-Wood GLU**  
HARDWOOD ADHESIVE



## DESCRIPTION

EnG-Wood GLU is a very aggressive high solid, high strength WOOD adhesive engineered for the installation of a wide variety of direct glue-down wood types. EnG-Wood GLU is solvent free and offers excellent performance characteristics complementing its strong and durable bond for demanding installations.



**pH**  
7-10



**RH**  
Up to 90%



**Foot Traffic**  
16 hrs



**Rolling Loads**  
24 hrs







**Working Time**  
10-30 mins

## Approved Floor Covering

- Engineered Plank
- Acrylic Impregnated Plank
- Finished and Unfinished Solid Wood 4" width or less, with Limitations
- Cork Flooring and Underlayment
- Natural or Carbonized Bamboo Plank, with Limitations

## Required Applications & Coverage

FLOOR COVERING	TROWEL RECOMMENDATION	ESTIMATED COVERAGE
Cork Flooring and Underlayment	1/16" x 1/16" x 1/16" Square Notch 	Up to 180 sqft/gallon
Engineered Plank	3/16" x 1/4" x 5/16" V Notch 	Up to 60 sqft/gallon
Solid Plank up to 4" wide	3/16" x 1/4" x 5/16" V Notch 	Up to 60 sqft/gallon
Solid Plank up to 3" wide	3/16" x 1/4" x 1/2" V Notch 	Up to 85 sqft/gallon

**DISCLAIMER:** Users should determine the suitability of this information and product for their own purpose or application. The manufacturer is not responsible for the misuse of this product. This adhesive is only warranted to maintain an adhesive bond when used as prescribed by Lighthouse Adhesives. ASTM 2659 impedance readings that exceed 3.0% may void the warranty.



## Limitations

- Wood substrates should test less than 12% moisture using a pin meter
- Not for use with exotic species
- Stranded or woven bamboo is not approved
- Natural or carbonized bamboo vertical or horizontal (3 ply minimum) with 4" width or less
- Solid wood installation is limited to 4" wide or less for wood thickness of 1/2"-3/4", 3" wide or less is limited to 1/2" thickness
- Not for use to encapsulate asbestos
- Not for use when moisture exceeds 3.0% per ASTM F2659, or Relative Humidity of concrete substrate exceeds 90% (ASTM F2170)
- Not for use where hydrostatic pressure exists
- Do not use if substrate pH is greater than 10.0 or below 7.0
- Concrete substrate must be a minimum of 5° F above dew point
- Ambient conditions must be between 60°-90° F - 30-65% RH
- Extreme ambient condition changes will affect the performance quality of the installation
- Do not install over chemically abated substrates
- 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 topically or entrained
- Follow NWFA guidelines when installing all wood flooring to all substrates

## Suitable Substrates

- Concrete substrates (at least 28 days old)
- On, above or below grade installations
- 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)
- Well bonded Vinyl Composite Tile (VCT) free of wax and sealers
- Properly primed gypsum based underlayment that meets ASTM F2419 requirements for compressive strength
- Well bonded cork underlayment
- Radiant heated substrates should be turned off 24hrs prior to installation, Maximum 85° F.

## Substrate Testing

- RH: 90% [ASTM F2170]
- pH: Between 7.0-10.0 [ASTM F710]

**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

**FOLLOW ALL FLOOR COVERING MANUFACTURERS GUIDELINES. SUBSTRATES MUST BE PREPARED IN ACCORDANCE WITH ASTM F710 AS WELL AS THE FOLLOWING:**

- Substrates must be dry, smooth, solid, structurally sound and flat.
- Substrates should be clean and free of dust, dirt, oil, grease, paint, curing agents or concrete sealers; topically applied or entrained (only specified by light house adhesive), loosely bonded toppings, adhesive residue, loose particles, and any other substance that may prevent or reduce adhesion.
- Substrate should be flat and within 3/16" over a 10' span
- Fill all surface cracks, grooves, depressions and non-moving joints with patching or self-leveling compounds.
- Substrate, adhesive and floor covering must be acclimated with HVAC in operation for 48 hours prior, during, and continuously after installation is complete.
- Ambient conditions, temperature must be between 60°-90° F and relative humidity must be between 30-65% during and following installation.
- When installing over radiant heated substrates, 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 temperature. Floor temperature should not exceed 85° F.

## Installation Instructions

Follow flooring manufacturer's guidelines for layout, design, and any special precautions for installation. Substrate floor flatness is critical or hollow spots could occur when installing wood over irregular substrates. Hollow spots are related to improper substrate preparation and is not an adhesive issue.

**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 the determined trowel as needed for desired floor covering type.

### SUBSTRATE APPLICATION

- Spread the adhesive approximately 24" wide using the determined trowel, allow 10-30 minutes for adhesive to flash off before installing the wood flooring, do not work off installed planks (installing into the adhesive with a 100% transfer to plank backing).
  - Working time: Will vary depending on ambient conditions and porosity of the substrate.
  - Be sure to install floor covering during the working time of the adhesive or loss of adhesion could occur.
- 3) After installation, roll flooring with 75-100lb roller to ensure proper adhesive transfer.

NOTE: Foot traffic is typically allowed after 16-hours, furniture placement and heavy loads after 24 hours, 72 hours for finish coats and five days for regular maintenance.

**It is up to the end user to determine the proper trowel and coverage rate.**

## 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°-100° Fahrenheit.
- This product has a shelf life of 2 years

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**GLURU**  
TECHNICAL  
DEPARTMENT

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