



Lighthouse
ADHESIVES

In&Out GLU
MULTI-USE ADHESIVE



DESCRIPTION

In&Out GLU is a very aggressive, high strength outdoor adhesive engineered for the installation of a wide variety of direct glue-down carpet types. In&Out GLU is solvent free and offers excellent performance characteristics complementing its strong and durable bond for demanding outdoor and indoor applications.



pH
7-11



RH
Up to 95%







Foot Traffic
As soon as
16 hrs

Approved Floor Covering

- ActionBac
- Enhancer Back
- Woven Back
- Axminster
- Double Bond/Double Glue Down Carpet and pad installations
- Unitary Back
- Needle-punched
- Latex Unitary Backed
- Urethane Backed
- Rubber backed
- Most Outdoor artificial grass/turf
- Cork underlayment and Cork floor covering
- Marine back

Required Applications & Coverage

FLOOR COVERING	TROWEL RECOMMENDATION	ESTIMATED COVERAGE
Cork Underlayment and Floor Covering	1/16" x 1/16" x 1/16" Square Notch 	Up to 180 sqft/gallon
Smooth-Backed Carpet	3/32" x 3/32" x 3/32" V Notch 	Up to 15 sqy/gallon
Broadloom/ActionBac	1/8" x 1/8" x 1/16" V Notch 	Up to 10 sqy/gallon
Rough-Back and double bond pad to substrate	1/8" x 1/8" x 1/16" U Notch 	Up to 8 sqy/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 3.5% may void the warranty.



1-844-GLURU-4U



LIGHTHOUSE ADHESIVES

4284 South Dixie Hwy
Resaca GA 30735
lighthouseadhesives.com

Limitations

- Not for use with vinyl backed floor coverings
- Not for use to encapsulate asbestos
- Not for use when moisture exceeds 3.5% per ASTM F2659, or Relative Humidity of concrete substrate exceeds 95% (ASTM F2170)
- Not for use where hydrostatic pressure exists
- Do not use if substrate pH is greater than 11.0 or below 7.0
- Concrete substrate must be a minimum of 5° F above dew point
- Ambient conditions must be between 50°-100° F - 20-75% 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.

Suitable Substrates

- Concrete substrates (at least 28 days old)
- On, above or below grade installations
- Asphalt (greater than a year old)
- 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: 95% [ASTM F2170]
- pH: Between 7.0-11.0 [ASTM F710]

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:

Indoor Application

- 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, loosely bonded toppings, adhesive residue, loose particles, and any other substance that may prevent or reduce adhesion.
- Fill all surface cracks, grooves, depressions and non-moving joints with moisture 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.

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.
 - POROUS SUBSTRATE**
 - After spreading the adhesive using the determined trowel, allow 10-25 minutes for adhesive to flash off (installing into the adhesive with a 100% transfer to floor covering 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.
 - NON-POROUS SUBSTRATE**
 - After spreading the adhesive using the determined trowel, wait until the adhesive becomes tacky and develops legs. Install into the adhesive while still able to maintain a 100% transfer of adhesive to floor covering.
 - 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.

Outdoor Application

Do not use In&Out GLU if rain is in the forecast within a 24 hour period prior or after the time of the installation. Do not use if standing water is present. Direct sunlight will affect adhesive open and working times. Shading may be required for a successful installation. Lower temperatures may require extra cure time and higher temperatures will require shading to extend the working time of the adhesive. Open air installations (not covered) may require to be covered to protect the substrate from dew/condensation issues the day before the installation begins. Lower relative humidity will shorten the adhesive working time. Ambient conditions, temperature must be between 50°-100° F and relative humidity must be between 20-75% during and following installation.

- 3) After installation, roll flooring with 75-100lb roller to ensure proper adhesive transfer. Roll from the center towards the perimeter to allow expelling of trapped air.

NOTE: Foot traffic is typically allowed after 16-hours, heavy loads after 48 hours and five days for regular maintenance.

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° degrees F.
- This product has a shelf life of 2 years

LIGHTHOUSE ADHESIVES

4284 South Dixie Hwy

Resaca GA 30735

lighthouseadhesives.com



GLURU
TECHNICAL
DEPARTMENT

1-844-GLURU-4U