Glass Tile Adhesive

DS-252-0420

1. PRODUCT NAME
Glass Tile Adhesive

2. MANUFACTURER
LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION
Glass Tile Adhesive is a non-sag, polymer fortified adhesive mortar that is specifically formulated for use in glass tile applications. Glass Tile Adhesive has great workability and produces an ultra-white finish that enhances the look of glass mosaics, glass tile, and most any translucent tile or stone. In addition to containing antimicrobial protection, Glass Tile Adhesive is GREENGUARD GOLD certified for low VOC. Glass Tile Adhesive can also be used with porcelain or ceramic tile. Equipped with Microban Anti-Microbial Protection.

Advantages
- Consistent, ultra white color across the entire application area
- Optimal bond strength with minimal shrinkage
- Single component with no admix needed, just add water
- Superior non-sag performance
- Smooth and creamy consistency
- Equipped with anti-microbial technology to protect the treated article.
- UL GREENGUARD GOLD certified
- Unique color options are now available in all LATICRETE® grout colors when mixed with PERMACOLOR® Select Color Kits.

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¥ LATICRETE makes no guarantee on color match to our grout color card and color tools. This process/method can be used to create a colored adhesive mortar to facilitate the installation of translucent, transparent, opaque glass mosaics and other finishes where cleaning thin set mortar out of the joints is a challenge. Do not use colored adhesive mortar as a substitute for grout. Always conduct a test area to validate performance and results.

Suitable Substrates
- Exterior Glue Plywood (Interior Only)
- Concrete Masonry
- Cement Block
- Cement Mortar Bed
- Cement Terrazzo
- Ceramic Tile and Stone
- Gypsum Wallboard
- Cement Backer Board
- Masonry Surfaces

Packaging
- 25LB (11.4 KG) BAG

Approximate Coverage
Glass Tile Adhesive– 25 lb bag (11.3 kg)

Uses
Designed for interior, exterior, and submerged installations of all types of glass tile over concrete, exterior glue plywood (interior, dry areas only), and a variety of other substrates.
Approximately 35 ft² / 25 lb bag (3.2 m²/11.3 kg bag) with 1/4" x 1/4" (6 mm x 6 mm) notched trowel.

Approximately 26 ft² / 25 lb bag (2.4 m²/11.3 kg bag) with 1/4" x 3/8" (6 mm x 9 mm) notched trowel.

Approximately 52 ft² / 25 lb bag (4.8 m²/11.3 kg bag) with 1/8" x 3/16" (3 mm x 4.5 mm) notched trowel.

**Shelf Life**
Advanced plastic bag provides two (2) year shelf life. (non-rapid versions only) ***High humidity will reduce the shelf life of bagged product.

**Limitations**
Not for use directly over particle board, interior glue plywood, luan, Masonite® or hardwood floors. Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE® Waterproofing Membrane (see Section 10 FILING SYSTEMS).

**Note:** Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length.

**Cautions**
Consult SDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Verify suitability of Glass Tile Adhesive for use with resin, mesh-backed glass, painted or coated tile with glass manufacturer. For installations with a moisture sensitive, resin, mesh-backed, painted or coated backing, use LATAPOXY® 300 Adhesive. Consult with glass tile manufacturer for suitability and compatibility of their product over exterior glue plywood substrates and membranes.
- Contains portland cement and silica sand. Causes severe skin burns and eye damage. Wear protective gloves, eye protection and protective clothing. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer, respiratory irritation or serious lung problems. Do not breathe dust. Wear a respirator in dusty areas. Not for use with green marble or any moisture sensitive tile or stone.
- Keep out of reach of children.

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**4. TECHNICAL DATA**

**VOC/LEED Product Information**
This product has a cradle-to-gate (with options) Product-Specific (Type III) Environmental Product Declaration. The PCR review, life cycle assessment and declaration were independently verified by UL Environment in accordance with ISO 14025, ISO 14040 and ISO 14044.

**Applicable Standard**
ANSI A118.4, A118.11, ISO 13007-2, C1TE

**Physical Properties**

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Test Method</th>
<th>Specification</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 Day Cure Porcelain Tile Shear Strength</td>
<td>ANSI A118. 4 5.2.4</td>
<td>&gt;200 psi (1.38 MPa)</td>
<td>370-430 psi (2.6 -3.0 MPa)</td>
</tr>
<tr>
<td>14 Day Shear Bond Porcelain Tile Water Immersion</td>
<td>ANSI A118. 4 5.2.3</td>
<td>&gt;150 psi (1.0 MPa)</td>
<td>150-170 psi (1.0-1.2 MPa)</td>
</tr>
<tr>
<td>28 Day Cure Quarry Tile to Plywood Shear Bond</td>
<td>ANSI A118. 11 4 1.2</td>
<td>&gt;150 psi (1.0 MPa)</td>
<td>170-190 psi (1.2-1.3 MPa)</td>
</tr>
</tbody>
</table>
### Specifications Subject to Change
Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

### Working Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Time</td>
<td>20 minutes</td>
</tr>
<tr>
<td>Pot Life</td>
<td>5 hours</td>
</tr>
<tr>
<td>Wet Density</td>
<td>11.3 lb/gal (13.6 kg/m3)</td>
</tr>
</tbody>
</table>

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

### 5. INSTALLATION

#### Surface Preparation

All surfaces should be between 40°F (4°C) and 90°F (32°C) and structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with Latex Portland Cement Underlayment to provide a wood float (or better) finish. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. Concrete slabs must be plumb and true to within 1/4" (6 mm) in 10' (3 m).

Note: Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI specification A108.01-3.7 “Requirements for Movement Joints: Preparations by Other Trades” or TCNA detail EJ-171 “Movement Joints - Vertical & Horizontal”. Do not cover expansion joints with mortar.

1. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length.

2. Minimum construction for interior plywood floors.

**SUBFLOOR:** 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheet ends and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

**UNDERLAYMENT:** 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 Bonding Ceramic Tile, Stone or Brick Over Wood Floors for complete details.

### Mixing

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Place clean, potable water into a clean pail. Add Glass Tile Adhesive Mortar. Use approximately 2.5 – 2.6 qts (2.4 – 2.5 L) of water for 25 lbs (11.3 kg) of powder. (To mix smaller quantities use 3.2 parts powder to 1 part water.) Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow mortar to slake for 5 – 10 minutes. Remix without adding any more water or powder. During use, stir occasionally to keep mix fluffy. DO NOT temper with water.

**Mixing with PERMACOLOR® Select Color Kits**

Requires 1 PERMACOLOR Select Color Kit (contains 2 individual color packets, use both color packets) Place water in a clean mixing container. Remove color packets from the cardboard container as well as the protective plastic sleeve. The internal bag is a water dispersible pack – when using the 25 lbs. (11.3 kg) bag of Glass Tile Adhesive, drop both color packets directly in to water in clean mixing container. Mix with a drill mixer until pigment is dispersed evenly in container and the dispersible packet is no longer visible. Add Glass Tile Adhesive and mix as directed above. Please note that additional water may be necessary when using PERMACOLOR Select Color Kits.

**Application**

Apply mortar to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional mortar with the notched side. Back butter tiles before setting in order to provide full bedding and firm support and to prevent mortar ribbons from showing through transparent or translucent glass tile. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to embed tile and adjust level. Check mortar for complete coverage by periodically removing a tile and inspecting bedding mortar transfer onto back of tile. If mortar is skinned over (not sticky), remove and replace with fresh mortar.

*Note: Use proper sized notched trowel to ensure full bedding of the tile. Spread as much mortar as can be covered with tile in 15–20 minutes. Check with glass manufacturer for suitability of glass tile when used in conjunction with any specified membrane, thin-set and/or grout.*

**Grouting**

Grout installation after a minimum of 24 hours curing time at 70°F (21°C). Grout with SPECTRALOCK® PRO Premium Grout†, SPECTRALOCK PRO Grout†, PERMACOLOR Select, or PERMACOLOR Grout^.

**Cleaning**

Clean tools and tile work with water while mortar is fresh.

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**6. AVAILABILITY AND COST**

**Availability**

LATICRETE materials are available worldwide.

**For Distributor Information, Call:**

- Toll Free: 1.800.243.4788
- Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at laticrete.com.

**Cost**

Contact a LATICRETE Distributor in your area.

**7. WARRANTY**

See 10. FILING SYSTEM:
- DS 025.0: 25 Year System Warranty
- DS 230.13: 1 Year Product Warranty

**8. MAINTENANCE**

Non-finish LATICRETE and LATAPOXY installation materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

**9. TECHNICAL SERVICES**

**Technical Assistance**

Information is available by calling the LATICRETE Technical Service Hotline:
- Toll Free: 1.800.243.4788, ext. 1235
- Telephone: +1.203.393.0010, ext. 1235
- Fax: +1.203.393.1948

**Technical and Safety Literature**

To acquire technical and safety literature, please visit our website at laticrete.com.

**10. FILING SYSTEM**

Additional product information is available on our website at laticrete.com. The following is a list of related documents:
- DS 230.13: LATICRETE Product Warranty
- DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)
- DS 236.0: Waterproofing Membrane
- DS 250.0: PERMACOLOR Grout
- DS 281.0: PERMACOLOR Select DS
- DS 633.0: LATAPOXY 300 Adhesive DS
- DS 663.0: HYDRO BAN®
- DS 681.0: SPECTRALOCK PRO Premium Grout
- DS 685.0: SPECTRALOCK PRO Grout
- TDS 152: Bonding Ceramic Tile, Stone or Brick Over Wood Floors

† United States Invention Patent No.: 6,881,768 (and other Patents).

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United States Invention Patent No.: 6,784,229 (and other Patents)