**LATAPOXY® 300 Adhesive**

LATAPOXY® 300 Adhesive is a chemical resistant, epoxy adhesive that will bond to most sound, clean surfaces. Adhesive spreads easily and cleans with water while fresh. LATAPOXY 300 Adhesive is a factory-proportioned kit consisting of epoxy resin, hardener and chemical resistant silica filler. LATAPOXY 300 Adhesive can be used in interior and exterior (see limitations) walls and floors, wet and dry areas.

### ADVANTAGES
- Water cleanable
- No flammable solvents are required to clean tools or finished work
- Ideal for installing moisture sensitive marble and agglomerate tiles
- Ideal for the installation of resin backed tile, mosaics, stone, and agglomerates
- Non-staining on white and light-colored marble
- High bond strength
- Maximum chemical resistance
- Conforms to ISO 13007 with a R2 Classification

*Note: The Tile Council of North America recommends the use of epoxy adhesives and grouts for thin-set installations on suspended concrete slabs and for floors and walls when chemical resistance is required.*

### USES
- For heavy-duty commercial chemical resistant installations in food processing areas, commercial kitchens, restaurants, etc.
- Install all types of ceramic tile, marble and natural stone over post-tensioned and precast floor systems.
- Recommended for rubber flooring and wood block floors
- The installation of green marble, white marble, and resin backed tiles and stones agglomerate marbles that have a tendency to stain, darken or warp when installed with water-based installation materials.

### MANUFACTURER

LATICRETE Middle East LLC.
P.O. Box. 86028, Ras Al Khaimah
United Arab Emirates
Telephone: + 971 7 244 6396
Fax: + 971 7 244 5915
Internet: www.laticrete.me

### STANDARDS

**Applicable Standards**
- ANSI A118.3, EN 12004 and ISO 13007.

This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

Total VOC Content (g/L) of product is 24 g/L
Packaging:
#2 Unit: Net weight 11.1 Kg, Gross weight 12.1 Kg, makes 6.8 L of Mortar, #2 unit consists of the following components:
- 2 pouches of Part A, 2 pouches of Part B and 2 bags of Part C Powder. All components packed in one pallet, 48 pallets per pallet

Commercial unit: Net weight: 22.2 Kg, Gross weight: 23.7 Kg, consists of the following components:
- 4 pouches of Part A & Part B in a pallet
- 48 pallets/pallet
- 4 bags of Part C Powder in a carton
- 48 cartons/pallet

Suitable Substrates
- Concrete
- Ceramic Tile and Stones
- Exterior Glue Plywood*
- Concrete Masonry
- Brick Masonry
- Non-Water Soluble Cut-Back Adhesive*
- Vinyl Or Other Resilient Tile*
- Cement Mortar Beds
- Gypsum Wallboard*
- Cement Plaster
- Cement Terrazzo
- Plastic Laminate*
- Cement Backer Board**
- Steel
- Fiberglass
- HYDRO BAN® Board***

* Interior application only.
**Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.
***Consult product datasheet (DS-040.0) for specific installation recommendations

Approximate Coverage for #2 unit

<table>
<thead>
<tr>
<th>Trowel Type</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>With 1.5 mm (1/16&quot;) v-notch trowel</td>
<td>125-135 ft² (11.6-12.5 m²)</td>
</tr>
<tr>
<td>With 4 mm (3/16&quot;) v-notch trowel</td>
<td>40-50 ft² (3.7-4.8 m²)</td>
</tr>
<tr>
<td>With 3 x 3 mm (1/8&quot; x 1/8&quot;) square notch trowel</td>
<td>60-70 sq. ft / 5.6-6.5 m²</td>
</tr>
<tr>
<td>With 6 x 6 mm (1/4&quot; x 1/4&quot;) square notch trowel</td>
<td>30-35 sq. ft / 2.8-3.3 m²</td>
</tr>
</tbody>
</table>

Shelf Life
Factory sealed containers of this product are guaranteed to be of first quality for two (2) years***

***High humidity will reduce the shelf life of bagged product.

Limitations
- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- Not for use as a grout. Use SPECTRALOCK® PRO Premium Grout*, SPECTRALOCK PRO Grout®, LATAPOXY® SP-100, PERMACOLOR® Select or SPECTRALOCK 2000 IG.
- Do not install when surface temperature is below 60°F (16°C) or above 90°F (32°C).
- Not for use as a wear surface.
- Adhesives for ceramic tile and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE® Waterproofing Membrane (see Section 10 FILING SYSTEMS).
- Consult LATICRETE® Technical Services on limitations for exterior installations.

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/brick installations or L/480 for thin bed stone installations where L=span length (except where local building codes specify more stringent deflection requirements)

Cautions
Consult SDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- LATAPOXY® 300 Adhesive Part A is corrosive until fully cured. Damage to eyes or skin is possible.
- Wait 14 days after the final grouting period before filling water features with water at 70°F (21°C).
- Contains silica sand. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Method</th>
<th>Specification</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarry Tile Shear Bond Strength</td>
<td>ANSI A118.3-5.5</td>
<td>&gt;1000 psi</td>
<td>&gt;1000 psi</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ANSI A118.3-5.7</td>
<td>&gt;1000 psi</td>
<td>1000-1400 psi</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM C579</td>
<td>&gt;3500 psi</td>
<td>6970-7500 psi</td>
</tr>
<tr>
<td>Thermal Shock Resistance</td>
<td>ANSI A118.3-5.8</td>
<td>&gt;600 psi</td>
<td>600-700 psi</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>ANSI A118.3-5.3</td>
<td>&lt;0.25%</td>
<td>0–0.1%</td>
</tr>
<tr>
<td>Sag Resistance</td>
<td>ANSI A118.3-5.4</td>
<td>No change</td>
<td>Pass</td>
</tr>
<tr>
<td>Water Cleanability</td>
<td>ANSI A118.3-5.1</td>
<td>&gt;90 minutes</td>
<td>&gt;80 minutes</td>
</tr>
<tr>
<td>Shear Adhesion Strength</td>
<td>ISO 13007-2</td>
<td>≥2 N/mm²</td>
<td>&gt;5 N/mm²</td>
</tr>
<tr>
<td>Shear Adhesion Strength after Water Immersion</td>
<td>ISO 13007-2</td>
<td>≥2 N/mm²</td>
<td>≥2 N/mm²</td>
</tr>
<tr>
<td>Shear Adhesion After Thermal Shock</td>
<td>ISO 13007-2</td>
<td>≥2 N/mm²</td>
<td>≥2 N/mm²</td>
</tr>
<tr>
<td>Open Time: Tensile Adhesion Strength</td>
<td>ISO 13007-2</td>
<td>&gt;0.5 N/mm² in</td>
<td>&gt;0.5 N/mm²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>not less than 20 minutes</td>
<td>not less than 20 minutes</td>
</tr>
</tbody>
</table>

Performance Properties
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.

Classification in Compliance with EN 12004
**Surface Preparation**

All surfaces should be between 60°F (16°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. Installation may be made on a damp surface. New concrete slabs must be damp cured and at least 7 days old prior to application. All slabs must be plumb and true to within 1/64" (6 mm) in 10 ft (3 m). 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.

**Chemical Resistance Chart**

<table>
<thead>
<tr>
<th>REAGENT TYPE at (70°F [21°C])</th>
<th>LATAPOXY® 300 adhesive exposure level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Intermittent</td>
</tr>
<tr>
<td></td>
<td>Constant</td>
</tr>
<tr>
<td>Citric Acid 10%</td>
<td>R</td>
</tr>
<tr>
<td>Sulfuric Acid 10%</td>
<td>R</td>
</tr>
<tr>
<td>Hydrochloric Acid 10%</td>
<td>R</td>
</tr>
<tr>
<td>Lactic Acid 5%</td>
<td>R</td>
</tr>
<tr>
<td>Vinegar</td>
<td>R</td>
</tr>
<tr>
<td>Acetic Acid 10%</td>
<td>R</td>
</tr>
<tr>
<td>Nitric Acid 10%</td>
<td>R</td>
</tr>
<tr>
<td>Sodium Hydroxide 10%</td>
<td>R</td>
</tr>
<tr>
<td>Sodium Chloride 10%</td>
<td>R</td>
</tr>
<tr>
<td>Concentrated Detergents</td>
<td>R</td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
<td>R</td>
</tr>
<tr>
<td>Sugars</td>
<td>R</td>
</tr>
<tr>
<td>Gasoline</td>
<td>R</td>
</tr>
<tr>
<td>Cooking Oils</td>
<td>R</td>
</tr>
<tr>
<td>Turpentine</td>
<td>R</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>R</td>
</tr>
<tr>
<td>Toluene</td>
<td>NR</td>
</tr>
<tr>
<td>Xylene</td>
<td>NR</td>
</tr>
</tbody>
</table>

Re: Recommended NR: Not Recommended


NOTES TO SPECIFIER: Use the constant exposure recommendations for intermittent exposure to reagents at temperatures above 90°F (32°C).

**Installation**

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.

**Application**

**Requirements for Movement Joints: Preparations by Other Trades** or TCNA detail EJ-171 “Movement Joints—Vertical & Horizontal”. Do not cover expansion joints with mortar.

**Note:** Use the proper sized notched trowel to ensure full bedding of the tile. Back butter large tiles > 6" x 8" (>200 mm x 200 mm) to provide full bedding and firm support. 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.

**Pouring**

Pour LATAPOXY® 300 Adhesive Part A and Part B into a clean mixing pail and mix thoroughly. Add LATAPOXY® 300 Part C Filler Powder and mix to a smooth, trowelable consistency. Mortar is ready for use immediately after mixing.

**Temperature**

Temperature will effect working properties of LATAPOXY 300 Adhesive. Warm temperatures will speed curing and shorten working time. Cool temperatures will slow curing and require longer time to traffic. Store LATAPOXY 300 Adhesive at 70°F (21°C) for 24 hours prior to use.
AVAILABILITY AND COST

Availability
LATICRETE® materials are available worldwide. For distributor information, please contact us by email at: enquiry@laticrete.me or, visit www.laticrete.me

Cost
Contact a LATICRETE® closer distributor to obtain complete information and cost.

WARRANTY
The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of one (1) year. Contact Technical Support for further information

MAINTENANCE
LATICRETE® products are of high quality designed to achieve lasting installations and avoid maintenance, however performance and durability may depend on properly maintaining products, depending on the cleaning products used.

TECHNICAL SERVICES
Technical assistance
For information contact us by email at: enquiry@laticrete.me

Technical and safety literature
To obtain technical and safety literature, please visit our website at: www.laticrete.me

Warning: The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE® products must conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.