LATAPOXY® 300 Adhesive

DS-633-1026

Globally Proven Construction Solutions



1. PRODUCT NAME
LATAPOXY® 300 Adhesive

2. MANUFACTURER
LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA
Telephone: +1.203.393.0010, ext. 1235
Toll Free: 1.800.243.4788, ext. 1235
Fax: +1.203.393.1684
Website: laticrete.com

3. PRODUCT DESCRIPTION
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. Ideal for stainless steel pool and spa vessels.

Uses
- For heavy duty commercial chemical resistant installations in food processing areas, commercial kitchens, restaurants, etc. Also use LATAPOXY 300 Adhesive to install all types of ceramic tile, marble, glass* and natural stone over post-tensioned and precast floor systems. Also 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.

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.
- When using with Glass and glass tiles, please refer to glass manufacturer's recommended instructions.

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
- Non-staining on white and light-colored marble
- High bond strength
- Ideal for installing mosaics, stone, and agglomerates
- Maximum chemical resistance
- Conforms to ISO 13007 with a R2 Classification

Suitable Substrates
- Concrete
- Cement Mortar Bed
- Brick Masonry
- Existing Ceramic Tile And Stones
- Gypsum Wallboard
- Cement fiber board
- Exterior Glue Plywood (Interior Only)
- Steel
- Concrete Masonry Units (CMU)
- Non-Water Soluble Cut-Back Adhesive
- Vinyl Or Other Resilient Tile
- Cement Plaster
- Plastic Laminate
- Cement Backer Board

Packaging
Unit Consists of the following components:
2 pouches of Part A total weight 2.1 lbs (1.0 kg)
2 pouches of Part B total weight 4.1 lbs (1.9 kg)
2 bags of Part C Powder total weight 18 lbs (8.2 kg)

Approximate Coverage

	#2 Unit
With 1/16" (1.5 mm) v-notch trowel	125-135 ft² (11.6-12.5 m²)
With 3/16" (4 mm) v-notch trowel	40–50 ft² (3.7-4.6m²)
With 1/8" x 1/8 (3 x 3 mm) square notch trowel	60–70 sq. ft/5.6–6.5 m²
With 1/4" x 1/4 (6 x 6 mm) square notch trowel	30–35 sq. ft/2.8–3.3 m²

Shelf Life

Two (2) year shelf life. ***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 tile/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 safety information.
- During cold weather, protect finished work from traffic until fully cured.
- LATAPOXY® 300 Adhesive Part A is corrosive until fully cured. Causes severe skin burns and eye damage, may cause an allergic skin reaction.
- 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. DO not breathe dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

4. TECHNICAL DATA

VOC/LEED Product Information

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 (grams/liter) of product is 24 g/L.

Applicable Standard

- ANSI A118.3, EN 12004 and ISO 13007

Physical Properties

Test	Method	Specification	Results
Quarry Tile Shear Bond Strength	ANSI A118.3–5.5	>1000 psi (6.9 MPa)	>1000 psi (6.9 MPa)
Tensile Strength	ANSI A118.3–5.7	>1000 psi (6.9 MPa)	1000–1400 psi (6.9-9.6 MPa)
Compressive Strength	ANSI A118.3–5.6	>3500 psi (24.1 MPa)	5000–5400 psi (34.4–37.2 MPa)
Thermal Shock Resistance	ANSI A118.3–5.8	>500 psi (3.4 MPa)	600–700 psi (4.1–4.8 MPa)
Shrinkage	ANSI A118.3–5.3	<0.25%	0–0.1%
Sag Resistance	ANSI A118.3–5.4	No shape change	Pass
Water Cleanability	ANSI A118.3–5.1	>80 minutes	>80 minutes
Shear Adhesion Strength	ISO 13007-2 4.3.4	>2 N/mm²	>2 N/mm²
Shear Adhesion Strength after Water Immersion	ISO 13007-2 4.3.5	>2 N/mm²	>2 N/mm²
Shear Adhesion After Thermal Shock	ISO 13007-2 4.3.8	>2 N/mm²	>2 N/mm²
Open Time: Tensile Adhesion Strength	ISO 13007-2 4.1	>0.5 N/mm² in not less than 20 minutes	>0.5 N/mm² in not less than 20 minutes

Working Properties

Pot Life	45 minutes
Time to Grout	12 hours
Time to Light Traffic	12 hours
Time to Heavy Traffic	24 hours
Minimum Application Layer	1/8 in (3 mm)
Maximum Application Layer	3/8 in (9 mm)
Wet Density	13.2 lb/gal (1.59 g/ml)

LATAPOXY® 300 Adhesive

REAGENT TYPE at 70°F (21°C)	LATAPOXY® 300 Adhesive EXPOSURE LEVEL	
	Intermittent	Constant
Citric Acid 10%	R	R
Sulfuric Acid 10%	R	R
Hydrochloric Acid 10%	R	R
Lactic Acid 5%	R	R
Vinegar	R	NR
Acetic Acid 10%	R	NR
Nitric Acid 10%	R	R
Sodium Hydroxide 10%	R	R
Sodium Chloride 10%	R	R
Concentrated Detergents	R	R
Ammonium Hydroxide	R	R
Sugars	R	R
Gasoline	R	R
Cooking Oils	R	R
Turpentine	R	R

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 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 28 days old prior to application. All slabs must be plumb and true to within 1/4" (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.

  Note: 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.

  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 sheets and 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.

  3. DO NOT bond to particle board, OSB, luan, Masonite® or hardwood surfaces.

  Mixing
  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.

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.

Note: Use the proper sized notched trowel to ensure full bedding of the tile. Back butter large tiles > 8" 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.

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:

- 25 Year System Warranty (US) (English)
- 1 Year Product Warranty (US) (English)
- Lifetime System Warranty (US) (English)
- Garantía limitada del sistema de 25 años (Estados Unidos) (Español)
- Garantía limitada del producto (Estados Unidos) (Español)
- Garantía limitada del sistema de por vida (Estados Unidos) (Español)
- 25 Year System Warranty (Canada) (English)
- Lifetime System Warranty (Canada) (English)
- Garantie limitée de 25 ans du système (Canada) (Français)
- Garantie limitée du produit (Canada) (Français)
- Garantie à vie limitée du système (Canada) (Français)

8. MAINTENANCE

LATICRETE and LATAPOXY® grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers. All stone and tile should be maintained and sealed with LATICRETE STONETECH® professional products as appropriate for the specific tile/stone and installation situation.

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 230.99: LATICRETE Lifetime System Warranty (United States and Canada)
- DS 230.12HC: LATICRETE Home Center 10 Year System Warranty
- DS 700.12HC: LATICRETE Home Center Lifetime System Warranty
- DS 030.0: SPECTRALOCK® 2000 IG
- DS 236.0: 9235 Waterproofing Membrane
- DS 631.0: LATAPOXY SP-100
- DS 663.0: HYDRO BAN®
- DS 681.0: SPECTRALOCK PRO Premium Grout
- DS 685.0: SPECTRALOCK PRO Grout
- DS 281.0: PERMACOLOR® Select

LATICRETE International, Inc.
One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • www.laticrete.com
© 2026 LATICRETE International, Inc. All trademarks shown are the intellectual properties of their respective owners.