

1. PRODUCT NAME

LATICRETE[®] 300 Epoxy Adhesive

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

LATAPOXY[®] 300 Epoxy 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 Epoxy Adhesive is a factory-proportioned kit consisting of epoxy resin, hardener and chemical resistant silica filler. LATAPOXY 300 Epoxy Adhesive can be used in interior and exterior (see limitations) walls and floors, wet and dry areas.

Uses

For heavy duty commercial chemical resistant installations in food processing areas, commercial kitchens, restaurants, etc. Also use LATAPOXY 300 Epoxy Adhesive to install all types of ceramic tile, marble and natural stone over post-tensioned and precast floor systems. Also recommended for rubber flooring and wood block floors. For the installation of green marble, white marble and agglomerate marbles that have a tendency to stain, darken, or warp when installed with water-based installation materials.

NOTE: The Tile Council of 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.

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 marble and agglomerates.
- Non staining on white and light colored marble.
- High bond strength
- Maximum chemical resistance

Suitable Substrates

- | | |
|----------------------------------|-----------------------|
| • Concrete | • Cement Mortar Beds |
| • Ceramic Tile and Stones | • Cement Backer Board |
| • Exterior Grade Plywood* | • Gypsum Wallboard* |
| • Concrete Masonry | • Cement Plaster |
| • Brick Masonry | • Cement Terrazzo |
| • Asphaltic Adhesives* | • Plastic Laminate* |
| • Vinyl or Other Resilient Tile* | • Steel |

*Interior application only

**Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

Packaging

LATAPOXY 300 Epoxy Adhesive is a factory proportioned kit with Resin, Hardener and Filler Powder, packed in a plastic mixing pail together with rubber gloves, cleaning pad and instructions.

Unit Sizes:

#1 Unit : Weight: 12.6 lb (5.7 kg) Volume: 0.9 gals. (3.4 ℓ)

#2 Unit : Weight: 25.2 lb (11.4 kg) Volume: 1.8 gals. (6.8 ℓ)

Approximate Coverage

	#1 Unit:	#2 Unit
With 1/16" (1.5 mm)*		
V-notch trowel:	90-100 sq.ft./8.1-9.0 m ²	180-200 sq.ft./16.2-18 m ²
With 3/16" (4 mm)		
V-notch trowel:	35-40 sq.ft./3.2-3.6 m ²	70-80 sq.ft./6.3-7.2 m ²
With 1/8" x 1/8" (3 x 3 mm)		
square notch trowel:	45-55 sq.ft./4.2-5.1 m ²	90-110 sq.ft./8.4-10.2 m ²
With 1/4" x 1/4" (6 x 6 mm)		
square notch trowel:	15-18 sq. ft./1.4-1.7 m ²	30-35 sq. ft./2.8-3.3 m ²

*Resilient and wood flooring only.

Shelf Life

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

Limitations

- Not for use as a grout. Use LATAPOXY SP-100 Stainless Epoxy Grout or LATAPOXY 2000 Industrial Epoxy Grout.
- Do not install when surface temperature is below 60 °F (16 °C) or above 90 °F (32 °C). For temperatures between 40 °-60 °F (4-16 °C), use LATAPOXY 300 Rapid Epoxy Adhesive.
- Adhesives for ceramic tile and stone are not replacements for waterproof membranes. When a waterproof membrane is required, use LATICRETE Waterproof Membrane (see Section 10 Filing Systems).
- Consult Laticrete Technical Services on limitations for exterior installations.
- When installing ceramic tiles, verify that substrate deflection does not exceed the industry standard of L/360 of the span under combined live and dead loads. Not to be used with engineered wood joist systems. Some marbles and other natural stone have low flexural strength and may not be suitable for installation over wood floors.

Cautions

- During cold weather, protect finished work from traffic until fully cured.
- Until cured LATAPOXY 300 Epoxy Adhesive may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- 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.

4. TECHNICAL DATA

Applicable Standards

ANSI A118.3-1999

Performance Properties

Test/Test Method	Results
Shear Bond	
Quarry tile, 28 day cure ANSI A118.3-1999; E-5.5	>1250 psi (8.6 MPa)
Tensile Strength ANSI A118.3-1999; E-5.7	1800 psi (12.4 MPa)
Compressive Strength ANSI A118.3-1999; E-5.6	7500 psi (51.7 MPa)
Thermal Shock Resistance ANSI A118.3-1999; E-5.8	>1200 psi (8.3 MPa)
Shrinkage ANSI A118.3-1999; E-5.3	0.03%
Sag Resistance ANSI A118.3-1999; E-5.4	Pass
Water Cleanability ANSI A118.3-1999; E-5.1	>80 minutes

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.

Working Properties (70 °F(21 °C))

Pot Life	45 minutes	
Time to Traffic	24 hours	
Wet Density	99 lbs/ft ³ (1590 kg/m ³)	
CHEMICAL RESISTANCE CHART LATAPOXY® 300 EPOXY ADHESIVE		
REAGENT TYPE (at 70 °F/21 °C)	LATAPOXY 300 Epoxy 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	R
Acetic Acid 10%	R	NR
Nitric Acid 10%	R	R
Sodium Hydroxide 10%	R	R
Sodium Chloride 10%	R	R
Concentrated Detergents	R	NR
Ammonium Hydroxide	R	R
Sugars	R	R
Gasoline	R	NR
Cooking Oils	R	R
Turpentine	R	R
Mineral Spirits	R	R
Toluene	NR	NR
Xylol	NR	NR

R= Recommended • NR= Not Recommended

Chemical Resistance determined in accordance with ASTM C267-1982.
NOTES TO SPECIFIER: Use the constant exposure recommendations for intermittent exposure to reagents at temperatures above 90 °F (32 °C).

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, loose peeling paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with LATICRETE® 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

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plumb and true to within ¼”(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 AN-3.8 “Requirements for Expansion Joints” or TCA Detail EJ171-Current Year “Expansion Joints”. Do not cover expansion joints with mortar. Glass Mesh Mortar Unit: follow TCA installation detail W244. Note: Temperature will effect working properties of LATAPOXY 300. Warm temperatures will speed curing and shorten working time. Cool temperatures will slow curing and require longer time to traffic. Store LATAPOXY® 300 Epoxy 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 grade 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 ¼” (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 grade 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 ¼” (6 mm) between sheets and ¼” (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 “Requirements for Direct Bonding of Ceramic or Stone Tiles Over Wood Floors” for complete details.

3. **DO NOT** bond to particle board, luan, Masonite® or hardwood surfaces. **For white and light colored marbles use LATICRETE 220 Marble and Granite Mortar WHITE. For green and moisture sensitive marbles, use LATAPOXY 300 Epoxy Adhesive, refer to Data Sheet 633.0.**

Mixing- Stir LATICRETE 40 thoroughly before use.

Mixing - Pour LATAPOXY 300 Epoxy 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 insure full bedding of the tile. Back butter large tiles > 8”x8” (>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 imbed 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 and LATAPOXY materials are available worldwide. For distributor information, call:

Toll Free: (800) 243-4788

Telephone: (203) 393-0015

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

Cost

Contact a LATICRETE/LATAPOXY Distributor in your area.

7. WARRANTY

LATAPOXY® 300 Epoxy Adhesive is guaranteed by the manufacturer not to breakdown, deteriorate or disintegrate under normal usage for a period of one (1) year from the date of installation. A component of the 10 Year Systems Warranty. Contact manufacturer for full details.

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.

9. TECHNICAL SERVICES

Technical assistance

Information is available by calling the LATICRETE Technical Service Hotline

(hours 8:00 AM to 5:30 PM EST):

Toll Free: (800) 243-4788 ext. 235

Telephone: (203) 393-0015 ext. 235

FAX: (203) 393-1948

Technical and safety literature

To receive data via fax 24 hours 7 days, call:

- (800) 359-3297 or (203) 393-0015, ext. 360
- To receive a Material Safety Data Sheet, enter Fax on Demand code **8006**.

10. FILING SYSTEM

Additional product information available upon request:

DS 631.0: LATAPOXY SP-100 Stainless Epoxy Grout
(Fax on Demand Code 6310)

DS 236.0: LATICRETE 9235 Waterproof Membrane
(Fax on Demand Code 2360)

DS 633.0: LATAPOXY 300 Epoxy Adhesive
(Fax on Demand Code 6330)

DS 230.13: LATICRETE Product Warranty
(Fax on Demand Code 3013)



**Globally proven.
Professionally endorsed.**

LATICRETE INTERNATIONAL, INC.

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