

1. PRODUCT NAME

LATICRETE® 300 Epoxy Adhesive

2. MANUFACTURER

LATICRETE Pty Ltd.
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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. Use as a bond coat with Laticrete 9235 waterproof for plastics and metals.

NOTE: Laticrete 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: 5.7 kg Volume: 3.4 litres

#2 Unit : Weight: 11.4 kg Volume: 6.8 litres

Approximate Coverage

	#1 Unit:	#2 Unit
With 1.5 mm*		
V-notch trowel:	8.1-9.0 m ²	16.2-18 m ²
With 4mm		
V-notch trowel:	3.2-3.6 m ²	6.3-7.2 m ²
With 3 x 3mm		
square notch trowel:	4.2-5.1 m ²	8.4-10.2 m ²
With 6 x 6 mm		
square notch trowel:	1.4-1.7 m ²	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 16°C or above 32°C. For temperatures between 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	>8.6 MPa
Tensile Strength ANSI A118.3-1999; E-5.7	12.4 MPa
Compressive Strength ANSI A118.3-1999; E-5.6	51.7 MPa
Thermal Shock Resistance ANSI A118.3-1999; E-5.8	>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 21°C

Pot Life	45 minutes
Time to Traffic	24 hours
Wet Density	1590 kg/m ³

CHEMICAL RESISTANCE CHART LATAPOXY® 300 EPOXY ADHESIVE

REAGENT TYPE at 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 32°C.

5. INSTALLATION

Surface Preparation

All surfaces should be between 16°C and 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 plumb and true to within 6mm in 3m. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow Australian Standards, 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 21°C for 24 hours prior to use.

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

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 >200mm x 200mm 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: 1800331012

Telephone: 03 99336111

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 5:00 PM EST):

Toll Free: 1800331012