



LATAPOXY® 300 Epoxy Adhesive



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.

Application

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

- Prevent curling of moisture sensitive marbles & agglomerated tiles
- Will not stain white or light coloured marbles

- High Chemical resistance for industrial and commercial installations
- Safe, non-flammable
- Water cleanable while fresh

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
- 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

Factory proportioned unit consisting of three conveniently packed components hardner, resin (Part A & Part B) and filler powder (Part C)

Net Weight

#1 Unit (5.5 kgs)

Coverage

Approx 15-18 ft ² per 5.5 kg unit with 1/4" x 1/4" (6mm x 6mm) sq. notch trowel
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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
- 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.

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	1700 psi (11.7 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

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).

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 plumb and true to within ¼”(6mm) in 10 ft(3m). 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” (15mm) 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” (150mm) o.c. along sheet ends and 8” (200mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8” (3mm) between sheet ends and ¼” (6mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive;

UNDERLAYMENT: 5/8” (15mm) thick exterior grade plywood fastened 6” (150mm) o.c. along sheet ends and 8” (200mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8” (3mm) to ¼” (6mm) between sheets and ¼” (6mm) 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.

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 adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional adhesive with the notched side. Use the proper sized notched trowel to insure full bedding of the tile. Spread as much adhesive as can be covered with tile in 10 minutes. Back butter large tiles (> 12"x12") to provide full bedding and firm support. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to imbed tile and adjust level. Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile. If adhesive is skinned over (not sticky), remove and replace with fresh adhesive.

Grouting

Grout installation after a minimum of 24 hours curing time at 70 ° F(21° C). Grout with LATICRETE LATICRETE Sanded or Unsanded Grout mixed with LATICRETE 282 Grout Admix . For maximum stain resistance use LATAPOXY SP-100 Stainfree Grout.

Cleaning

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

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY ® materials are available worldwide.

For distributor information:

Telephone: +91-40-23378775/76/79

FAX: +91-40-23378784

e-mail: laticrete@laticreteindia.com

Cost

Contact a LATICRETE Distributor in your area.

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.

WARRANTY

MYK LATICRETE India Pvt Ltd warrants that LATICRETE ® 300 Epoxy Adhesive is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase

subject to the terms and conditions stated in LATICRETE Product Warranty

TECHNICAL SERVICES

Technical assistance

Information is available by calling the LATICRETE Technical Service at:

Telephone: +91-40-30413100

FAX: +91-40-23378784

e-mail: contact@myklaticrete.com

MYK Laticrete India Pvt Ltd.

6-3-569/2, First Floor, Kamadhenu Complex

Rockdale Compound, Somajiguda

Hyderabad – 500082 (A.P)

Tel: +91-40-30413100

Fax: +91-40-23378784

e-mail: contact@myklaticrete.com

Website: www.myklaticrete.com

