



# 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.

**Globally Proven  
Construction Solutions**



## FEATURES/BENEFITS

- 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 coloured marble
- High bond strength
- Maximum chemical resistance

## SUITABLE SUBSTRATES

- |                           |  |
|---------------------------|--|
| ▪ Concrete                | ▪ Cement plaster                       |
| ▪ Cement mortar beds      | ▪ Brick masonry                        |
| ▪ Ceramic tile and stones | ▪ Cement terrazzo                      |
| ▪ Cement backer board**   | ▪ Asphaltic adhesives*                 |
| ▪ Exterior glue plywood*  | ▪ Plastic laminate*                    |
| ▪ Gypsum wallboard*       | ▪ Vinyl or other resilient tile*       |
| ▪ Concrete masonry        | ▪ Non-water soluble cut back adhesive* |
|                           | ▪ Steel                                |

\*Interior application only

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

## PACKAGING

LATAPOXY 300 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.

#2 Unit Pail:

- 2 x part A pouches
- 2 x part B pouches
- 2 x part C powder bags

Total Weight: 11 kg

## 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 and natural stone over post-tensioned and precast floor systems. Also recommended for; rubber flooring and wood block floors; the installation of green marble or serpentine, white marble, resin backed stone and agglomerate marbles that have a tendency to stain, darken, or warp when installed with water-based installation materials.

**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.

**Manufacturer**

LATICRETE Australia  
29 Telford Street  
Virginia, QLD 4014 Australia

Telephone: 07 3865 1599  
Toll Free: 1800 331 012  
Fax: 07 3865 2250  
Internet: www.laticrete.com.au

**Approximate Coverage**

Trowel	#2 Unit Pail (11 kg)
1.5 mm V-notched trowel	16.7 – 18.6 m <sup>2</sup>
4 mm V-notched trowel	6.5 – 7.4 m <sup>2</sup>
3 mm x 3 mm square notched trowel	8.4 – 10.2 m <sup>2</sup>
6 mm x 6 mm square notched trowel	2.8 – 3.3 m <sup>2</sup>

**Shelf Life**

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at >0°C to <43°C

**Limitations**

- Not for use as a grout. Use SPECTRALOCK® PRO Premium Grout, SPECTRALOCK 2000 IG or LATAPOXY® SP-100.
- Do not install when surface temperature is below 16°C or above 32°C.
- Not for use as a wearing surface.
- 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.
- 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 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.
- Contains Silica sand. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Wait 14 days after the final grouting period before filling water features with water at 21°C.
- Keep out of reach of children.

**TECHNICAL DATA**

This product has been GREENGUARD® Indoor Air Quality Certified by the GREENGUARD Environmental Institute under the GREENGUARD Standard for Low Emitting Products in finished form.

Total VOC Content grams/litre of product in unused form is 0.80 grams/litre.

**Applicable Standards**

Meets and exceeds the requirements of an R2 adhesive when tested against AS ISO 13007.1 & 2.

**Physical Properties**

To ANSI A118.3, EN12004 and ISO13007

Test	Method	Specification	Results
Quarry Tile Shear Bond Strength	ANSI A118.3-5.5	6.9 MPa	8.6 MPa
Tensile Strength	ANSI A118.3-5.7	6.9 MPa	9.6 – 11.7 MPa
Compressive Strength	ANSI A118.3-5.6	24.1 MPa	34.4 – 37.2 MPa
Thermal Shock Resistance	ANSI A118.3-5.8	3.4 MPa	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	ISO13007-2.4.3.4	≥2 N/mm <sup>2</sup>	≥2 N/mm <sup>2</sup>
Shear Adhesion Strength after water immersion	ISO13007-2.4.3.5	≥2 N/mm <sup>2</sup>	≥2 N/mm <sup>2</sup>
Shear Adhesion after thermal shock	ISO13007-2.4.3.8	≥2 N/mm <sup>2</sup>	≥2 N/mm <sup>2</sup>
Open Time Tensile Adhesion Strength	ISO13007-2.4.1	0.5 N/mm <sup>2</sup> in not less than 20 minutes	0.5 N/mm <sup>2</sup> in not less than 20 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 at 21°C**

Pot Life	45 minutes
Time to Grout	12 hours
Time to Light Traffic	12 hours
Time to Heavy Traffic	24 hours
Minimum Application Layer	3 mm
Maximum Application Layer	10 mm
Wet Density	1590 kg/m <sup>3</sup>

## Chemical Resistance Chart

LATAPOXY 300 Adhesive

Reagent Type at 21°C	Intermittent Exposure	Constant Exposure
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
Petrol	R	R
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

## INSTALLATIONS

All work should be in general accordance with AS3958.1-2007 unless otherwise noted in this document.

### 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 5 mm in 3 m. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow Australian Standards requirements for Expansion Joints in AS3958.1 Section 5.4.5 and AS3958.2 Section 4.5 or TCNA detail EJ-171 "Movement Joints – Vertical & Horizontal". 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 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 21°C for 24 hours prior to use.

### Mixing

Pour LATAPOXY® 300 Adhesive Part A and Part B into a clean mixing pail and mix thoroughly. Add LATAPOXY 300 Adhesive 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 >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.

## AVAILABILITY AND COST

### Availability

LATICRETE and LATAPOXY® materials are available worldwide.

For Distributor information:

Toll Free: 1800 331 012

Telephone: 07 3865 1599

For online distributor information, visit LATICRETE at [www.laticrete.com.au](http://www.laticrete.com.au)

### 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.

## TECHNICAL SERVICES

### Technical assistance

Information is available by calling:

Toll Free: 1800 331 012

Telephone: 07 3865 1599

Fax: 07 3865 2250

### Technical and safety literature

To acquire technical and safety literature, please visit our website at [www.laticrete.com.au](http://www.laticrete.com.au)

## DISCLAIMER

- The information contained in this document is given in good faith and to the best of our knowledge is true and accurate.
- This information is subject to change without notice and it is the responsibility of the user to obtain up to date and current information.
- The use of this product is beyond our control and LATICRETE is not responsible for any loss or damage arising from the incorrect use of this product.
- Efflorescence is a normal condition of Portland cement and is not covered by any warranty. The use of LATAPOXY 310 Stone Adhesive, LATAPOXY 300 Adhesive, LATAPOXY SP-100, SPECTRALOCK® PRO Premium Grout<sup>1</sup> and SPECTRALOCK® 2000 IG will not contribute to any noticeable efflorescence.

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<sup>1</sup> United States Patent No.: 6,881,768 (and other Patents).