



**For the Builders  
of a Better World™**

## LATAPOXY® 310 Stone Adhesive

LATAPOXY 310 Stone Adhesive is a two component high strength epoxy adhesive, which is formulated for spot bonding or fixing method of tile and stone installations on vertical surfaces. LATAPOXY 310 Stone Adhesive maintains its non-sag consistency at high temperatures up to 40°C.



### FEATURES/BENEFITS

- Fast permanent bond
- Easy to use - 1:1 mixing ratio by weight
- Non-staining — ideal for white and light colored marbles, other stones and tiles
- Withstands shock and vibration
- Low Modulus
- Durable permanent bond will not deteriorate over time
- Safe - no solvents
- Non-Sag — when applied up to 25mm thick
- Approved by the following building code bodies for exterior installations: BOCA; ICBO; SBCCI; ICC

### USES

- Spot bonding marble, granite and large format ceramic tile on walls and overheads, interior or exterior, dry or wet applications.
- Adhesive for bonding masonry, precast concrete and stone panels.
- Ideal for fireplace surroundings, elevators and stair risers.
- Adhesive for fabricating granite, marble and other stone
- Adhesive for bedding and fastening marble, granite and other stone slabs on walls and wainscoting

### MANUFACTURER/ DISTRIBUTED BY

LATICRETE South East Asia Pte Ltd  
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Telephone: +65 6515 3028 Fax: +65 6515 3037  
Internet: [se.laticrete.com](http://se.laticrete.com)

### STANDARDS/CERTIFICATIONS

- ISO 13007-1
- ANSI A118.3, American National Standard Specifications for Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive

## Acceptable Substrates

### Interior Substrates

Please contact LATICRETE Technical Services for specific installation details.

- Concrete
- Concrete masonry units (CMU)
- Brick/masonry
- Exterior glue plywood ~
- Cement backer board\*
- Steel\*\*

\* Interior only consult cement backer board manufacturer for specific installation recommendations

\*\* Steel surface must be cleaned to remove oil, dust, oxidation and other bond inhibiting materials  
~ Interior use only. Fire treated, marine grade or other chemically treated plywood panels are not acceptable substrates.

### Exterior Substrates

Please consult LATICRETE Technical Services prior to use for all exterior applications.

- Concrete
  - 150 mm thick and reinforced
  - 25 MPa compressive strength
  - 28 days old prior to installation
  - Concrete Masonry Unit (CMU)
  - Cavity wallsCMU

## Packaging

Full Unit: 10L Set containing the following:

- 5L Part A (Pail)
- 5L Part B (Pail)

## Coverage

The coverage for LATAPOXY 310 Stone Adhesive will vary depending upon the amount of product required to plumb the wall. The chart below is based on 10% coverage of the area of each tile or stone piece with 5 equal spots.

Average mm Out of Plumb	LATAPOXY 310 Thickness	Approx. Coverage / 10kg Set
Plumb Wall	3mm Thickness	27-30m <sup>2</sup>
6mm	6mm Thickness	14-16m <sup>2</sup>
12mm	12mm Thickness	7-7.5m <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  $\geq 0^{\circ}\text{C}$  to  $\leq 40^{\circ}\text{C}$ .

## Limitations

- Surface temperature for application:  $5^{\circ}\text{C} - 40^{\circ}\text{C}$ .
- For exterior applications, contact LATICRETE Technical Services at for approval prior to use.
- Sandstone, slate and fissile stones are not recommended veneers and should not be used with LATAPOXY<sup>®</sup> 310 Stone Adhesive. These stones and other porous stones may delaminate or break apart due to the nature of their porous and layered composition.

- 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, L/720 for ceramic tile/brick to external framed and sheeted substrates or L/720 for thin bed stone installations where L=span length.
- DO NOT bond to particle board, fire-retardant plywood, marine grade plywood, Luan, Masonite<sup>®</sup>, any chemically treated plywood or hardwood surfaces.

## Cautions

Consult MSDS for more safety information.

- Keep out of reach of children.
- LATAPOXY 310 Stone Adhesive has a slight, non-hazardous odor.
- During cold weather, protect finished work from traffic until fully cured.
- LATAPOXY 310 stone Adhesive Part A is corrosive to eyes and skin before curing. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Consult local building code for requirements.

## TECHNICAL DATA

### Performance Properties

Test	Test Method	Results
Water absorption	ANSI A118.3-1999	<0.15%
Shear bond strength marble to concrete	ANSI A118.3-5.5	>5.6 N/mm <sup>2</sup>
Compressive Strength	ANSI A118.3-5.6	>57N/mm <sup>2</sup>
Tensile strength	ANSI A118.3-5.7	>12N/mm <sup>2</sup>
Thermal Shock	ANSI A118.3-5.8	>9N/mm <sup>2</sup>

Data taken from report TCA 179-01

\* modified test method

\*\* Tile modified to porcelain tile

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.

Test	Test Method	Results
Shear adhesive strength (7 days)	ISO 13007-2 4.3.4	>25N/mm <sup>2</sup>
7 day cure 21 day water immersion shear adhesive strength	ISO 13007-2 4.3.5	>24N/mm <sup>2</sup>
7 day cure 4 100°C boiling water cycles shear adhesive strength	ISO 13007-2 4.3.8	>29N/mm <sup>2</sup>
Open time after 20 minutes	ISO 13007-2 4.1	>3N/mm <sup>2</sup>
Slip	ISO 13007-2 4.2	<0.35mm
Transverse deformation	ISO 13007-2 4.5	<3.7mm

\* LATAPOXY 310 Stone Adhesive is ISO 13007-1 R2T

**Working Properties**

Consistency	No Sag in Thickness to 25mm
Pot life @ 20°C	30-45 minutes
Set time @ 20°C	5-6 hours

**Temperature Effects**

Temp	Pot Life	Set Time
4°C	100 minutes	10 hrs
21°C	45 minutes	5-6 hrs
32°C	25 minutes	2.5-3 hrs

**INSTALLATION****Preparation**

Before using, store resins at room temperature >21°C for 24 hours to ensure ease of mixing. Surface temperature for application: 5°C - 40°C. All surfaces must be sound, clean, free of oil, waxes, frost, curing agents, form release agents or other bond inhibiting contaminants. All substrates must be clean and dry when applying LATAPOXY 310 Stone Adhesive. 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. Finished veneers equipped with any type of resin, mesh, epoxy or fiberglass backing must be ground in those areas to receive LATAPOXY 310 Stone Adhesive.

Clean and grind back of stone in areas to receive the LATAPOXY 310 Stone Adhesive spots using a mechanical wheel grinder with a diamond wheel/blade. Remove dust with a stiff brush and wipe entire surface. Using a damp sponge (not wet), wipe the tile or stone to remove any particles or remaining dust to ensure a clean direct bond and that all ground material is removed. Wipe dry with a clean cloth, then apply LATAPOXY 310 Stone Adhesive.

**Recommended Guidelines for Spot Bonding Stone:**

(Please consult your Local Code for actual code compliance)

**1. Interior Stone or Tile Applications**

- Thickness — units shall not exceed 2" (50mm).
- Module Weight — 20 lb/ft<sup>2</sup> (73 kg/m<sup>2</sup>) unless otherwise approved by project engineer.

**2. Exterior Porcelain Tile (applications)**

- Thickness — units shall not exceed 5/8" (16mm).
- Facial Dimensions — maximum of 432 in<sup>2</sup> (0.28m<sup>2</sup>) and no greater than 24" (610mm) along any edge or dimension.
- Module Weight — 9 lb/ft<sup>2</sup> (44.2 kg/m<sup>2</sup>) unless otherwise approved by project engineer.

**3. Exterior Stone Applications**

- Thickness — units shall not exceed 2" (50mm)
- Facial Dimensions — maximum of 720 in<sup>2</sup> (0.46m<sup>2</sup>) and no greater than 36" (915mm) along any edge or dimension.

- Module Weight — 15 lb/ft<sup>2</sup> (73 kg/m<sup>2</sup>) unless otherwise approved by project engineer.
- Height — No more than 30 ft (9.1 m)

*Note: Always check with the tile or stone manufacturer to make sure the tile or stone is suitable for vertical and exterior (if applicable) installations.*

**Mixing**

Combine equal weight of LATAPOXY 310 Stone Adhesive Part A and Part B (1:1 mix ratio by weight). Mix until uniform in color; no swirls. Small quantities can be mixed with a putty knife or margin trowel. Larger quantities can be mixed with an electric drill mixer (low speed). Cartridge packs are designed for use only with the LATAPOXY 310 Cordless Mixer.

**Application**

Apply dabs evenly distributed on back of the stone or tile; 5 dabs minimum, 1 in each corner and 1 in center. Cover at least 10% of the area of each piece. Finished dab thickness must be a minimum of 3 mm, maximum of 25mm.

*Note: Control, expansion or other movement of joints must be treated with a flexible sealant.*

**Approximate dab diameter required to achieve 10% coverage with 5 dabs:**

Tile Size	Dab Diameter
12" x 12" (300 mm x 300 mm)	50 mm
24" x 24" (600 mm x 600 mm)	100 mm
36" x 36" (900 mm x 900 mm)	150 mm

After installation of LATAPOXY 310 Stone Adhesive onto the back of the veneer, install onto substrate and adjust for plumb and level.

**Joint Treatment**

**Exterior applications** - Use Latasil™ to treat all joints for all exterior applications. Refer to DS 6200.1 for further instructions.

**Cleaning**

Clean tools and work while epoxy is fresh, using warm water. Detergent or soap can be added to the water for easier cleaning.

**AVAILABILITY AND COST****Availability**

LATICRETE and LATAPOXY materials are available worldwide. For distributor information, call:

**Telephone:** (65) 6515-3028

**Fax:** (65) 6515-3037

For on-line distributor information, visit LATICRETE at [se.laticrete.com](http://se.laticrete.com)

**Cost**

Contact a LATICRETE Distributor in your area.

**WARRANTY**

LATICRETE International warrants LATAPOXY 310 Stone Adhesive is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of two (2) years from date of purchase subject to terms and conditions. In addition, LATAPOXY 310 Stone Adhesive is warranted for a period of ten (10) years from the date

of purchase subject to the terms and conditions when used with Latasil Tile & Stone Sealant.

#### 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/ CONTACT

##### Technical Assistance

Information is available by calling:

LATICRETE South East Asia Pte Ltd  
No. 38 Sungei Kadut Street 2  
(Level 2, A3)  
Singapore 729245  
Telephone: (65) 6515-3028  
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Email: [enquiry@laticrete.com.sg](mailto:enquiry@laticrete.com.sg)

##### Technical and safety literature

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

##### Disclaimer

LATICRETE is not responsible for product use beyond its intended application. Liability is limited to replacing defective materials. We are not responsible for any loss or damage resulting from improper use. Product specifications are subject to change without notice. For the most up-to-date information, please visit our website at [se.laticrete.com](http://se.laticrete.com).