



LATAPOXY[®] 310 Stone Adhesive

LDS679aus.0



1. PRODUCT NAME

LATAPOXY[®] 310 Stone Adhesive

2. MANUFACTURER

LATICRETE Pty Ltd
29 Telford Street,
Virginia. QLD. 4014

Telephone: 07 38651599
Toll Free: 1800331012
Fax: 07 38652250
Email: laticreteoz@laticrete.com.au
Internet: www.laticrete.com.au

3. PRODUCT DESCRIPTION

LATAPOXY 310 Stone Adhesive is a two component, high strength epoxy adhesive, which is formulated for spot bonding fixing method of tile and stone installations on vertical surfaces. LATAPOXY 310 Stone Adhesive maintains its non-sag consistency at high temperatures up to 35°C.

Uses

- Spot bonding marble, granite and large format ceramic tile on walls and overheads, interior or exterior applications.
- Adhesive for bonding masonry, precast concrete and stone panels.
- Ideal for fireplace surrounds, elevators and stair risers.

- Adhesive for bedding and fastening marble, granite and other stone slabs on walls.
- Adhesive for fabricating granite, marble and other stone.

Advantages

- Fast Permanent Bond – 45 minutes to 1 hour set time.
- Easy to use – 1:1 mixing ratio by volume.
- Non Staining – ideal for white and light coloured marbles, other stones and tiles.
- Withstands shock and vibration.
- Durable permanent bond, will not deteriorate overtime.
- Safe – no solvents.
- Non Sag – when applied up to 25mm thick.
- Rapid version is available; 5-8minute set up.
- Approved by the International Building Code for exterior installations.

Acceptable Substrates

Please contact LATICRETE Technical Services at 1800331012 for specific installation details.

Interior Substrates

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

* Consult cement backer board manufacturer for specific installation recommendations.

** Steel surface must be cleaned to remove oil, dust, oxidation and other bond inhibiting materials.

Exterior Substrates

Please consult LATICRETE Technical Services on 1800331012 for approval prior to use for all exterior applications.

Concrete must be minimum

- 150mm thick and reinforced
- 24MPa compressive strength
- 28 days old prior to installation

CMU

- Cavity walls

Packaging

Full unit (10 litre kit) containing the following:

- One 5 litres of part A pail
- One 5 litres of part B pail

Mini unit (8 litre kit) containing the following:

- Eight 0.5 litre of part A mini jars
- Eight 0.5 litre of part B mini jars

Cartridge packs (9 litres kit) containing the following:

- Fifteen 600ml tubes of part A & B for use with 310 Cordless Mixer.

Commercial unit (20 litre kit) containing the following:

- One 10 litres of part A pail
- One 10 litres of 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.

Average millimeters out of Plumb	LATAPOXY® 310 Thickness	Approx coverage / 10 litre unit
Plumb Wall	3mm	27-30m ²
6mm	6mm	14-16m ²
12mm	12mm	7-7.5m ²

Cartridge Pack Coverage

One carton (15 cartridges) will yield approximately 14m² with 6mm thick dabs, or 27m² with 3mm thick dabs when covering 10% of the veneer surface.

Shelf Life

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

Limitations

- Surface temperature for application: 10°C - 35°C.
- For exterior applications, contact Technical Services at 1800331012 or techservice@laticrete.com.au for approval prior to use.
- Sandstone, slate and fissile stones are not recommended veneers and should not be used with LATAPOXY 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 or L/480 for thin bed stone installations where L = span length.

Cautions

- Consult MSDS for more safety information.
- Keep out of reach of children.
- LATAPOXY 310 Stone Adhesive has a slight, non hazardous odour.
- 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 and or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Consult local building code for requirements.

4. TECHNICAL DATA

Physical Properties

LATAPOXY 310 Stone Adhesive

Test	Test Method	Result
Consistency	LATICRETE in house	No sag in thickness to 25mm
Pot Life at 20°C	LATICRETE in house	30-45 minutes
Set Time at 20°C	LATICRETE in house	5-6 hours
Shear Bond Strength Marble to Concrete	ANSI A118.3-5.5*	5-6.3MPa
Compressive Strength	ANSI A118.3-5.6	57-58MPa
Tensile Strength	ANSI A118.3-5.7	10.3-14.5MPa
Thermal Shock	ANSI A118.3-5.8**	7-11MPa

Data taken from report TCA 179-01

* modified test method

** tile modified to porcelain tile

Working Properties

LATAPOXY 310 Stone Adhesive

Consistency	No sag in thickness to 25mm
Pot Life	30-45 minutes
Set Time at 20°C	5-6 hours

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.

Temperature Effects

LATAPOXY 310 Stone Adhesive

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

5. INSTALLATION

Preparation

Store resins at room temperature >21°C for 24 hours before using. 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 application of LATAPOXY 310 Stone Adhesive is made. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow AS3958.1 for requirements of movement joints

in tiling systems or TCNA detail EJ-171 “Movement joints – Vertical and Horizontal”. Do not cover expansion joints with mortar.

Finish veneers equipped with any type of resin, mesh, epoxy or fiberglass backing must be ground down to bare stone in those areas to receive LATAPOXY 310 Stone Adhesive.

Clean and grind back of stone at areas to receive the LATAPOXY 310 Stone Adhesive spots using mechanical wheel grinder with diamond wheel/blade. Remove dust with stiff brush and wipe entire surface. Using 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. Size – for tile or stone
Maximum Thickness 50mm – 4645cm² in area.
For >4645cm² contact LATICRETE Technical Service.
2. Module Weight – for tile or stone
Weight 73kgs.m² unless approved by an engineer.

Exception – Adhered veneered units weighing less than 1.4kgs/m² shall not be limited in dimension or area.

Note – Always check with the tile or stone factory to make sure the tile or stone is suitable for vertical and exterior (if applicable) installation.

Mixing

Combine equal volumes of LATAPOXY 310 Stone Adhesive Part A and Part B (1:1 mix ratio by volume). Mix until uniform in colour; 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 each corner and 1 in center. Cover at least 10% of the area of each piece. Finished dab thickness must be a minimum of 3mm, maximum 25mm.

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

Tile size	Dab Diameter
300 x 300mm	50mm
600 x 600mm	100mm
900 x 900mm	150mm

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

Joint Treatment

Exterior Application

Use a suitable silicone sealant to treat all joints.

Interior Applications

The following LATICRETE products may be used;

- LATICRETE SpectraLOCK Pro Grout
- LATICRETE 500 or 600 Series Grout fortified with LATICRETE 1776 Grout Admix Plus.
- Suitable silicone sealant.

Test area to ensure proper filling as narrow veneers and wide gaps behind the veneer may not allow for joint filling with an epoxy or cement grout.

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

Cleaning

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

6. AVAILABILITY AND COST

Availability

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

Toll Free: 1800331012
Melbourne Telephone: 03 99336111
Brisbane Telephone: 07 38651599

Melbourne office;
464 Geelong Road,
Footscray West. VIC. 3012.

Cost

Contact a LATICRETE Distributor in your area.



7. WARRANTY

LATICRETE warrants that LATAPOXY® 310 Stone Adhesive is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of seven (7) year from date of purchase subject to the terms and conditions stated in Data Sheet 230.7Paus LATICRETE Product Warranty. In addition, when used as a component of a LATICRETE System Installation, LATAPOXY 310 Stone Adhesive is warranted for a period of ten (10) years from the date of purchase subject to the terms and conditions stated in Data Sheet 230.10Saus LATICRETE System Warranty.

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 liability is restricted to replacement of product proven faulty.
- The manufacturer is not responsible for any loss or damage arising from incorrect usage of this product.
- Efflorescence is a normal condition of Portland cement and is not covered by any warranty. The use of Latapoxy 310, 300, GP100, SpectraLock, SP100 and 2000 will not contribute to any noticeable efflorescence.

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:
Toll Free: 1800331012
Telephone: 07 38651599
FAX: 07 38652250