



LATAPOXY® 310 Stone Adhesive

LATAPOXY® 310 Stone Adhesive is a two component, high strength epoxy adhesive, which is formulated for the spot bonding 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 (95°F).



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-colored marbles, other stones and tiles
- Withstands shock and vibration
- Durable permanent bond, will not deteriorate over time
- Safe—no solvents
- Non-Sag—when applied up to 25 mm (1") thick
- Rapid version is available; 5–8 minute set up

MANUFACTURER

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USES

- Spot bonding marble, granite, adhered masonry veneer and large format ceramic tile on walls and overhangs, interior or exterior applications
- Ideal for fireplace surrounds, elevators and stair risers
- Adhesive for bedding and fastening marble, granite and other stone slabs on walls and wainscoting
- Adhesive for fabricating granite, marble and other stone
- Approved by TCNA for Interior applications method W215 and W260

STANDARDS

- Applicable standard:
ANSI A118.3, EN 12004 and ISO 13007-1 R2T

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See the technical Data

PACKAGING

Full Unit: 10 L All components packed in one carton

- 5 L Part A pail
- 5 L Part B pail

Pallet: 32 cartons per pallet,
Available in standard and rapid versions.

Cartridge Packs

9 L For use in LATAPOXY 310 Cordless Mixer:

15 x 600 mL (20oz) cartridge packs of Part A and Part per carton, 27 cartons per pallet.
Available in standard and rapid version.

Commercial unit: 20 L (5.2 gal) containing the following:

- 10 L (2.6 gal) Part A pail
- 10 L (2.6 gal) Part B pail

Acceptable Substrates

Please contact LATICRETE® Technical Services or e-mail enquiry@laticrete.me for specific installation details.

Interior Substrates

- Concrete
- Concrete masonry units (CMU)
- Brick/masonry
- Exterior glue plywood¥
- Cement backer board*
- Steel**
- Pipe penetration§

* Consult cement backer board manufacturer for specific installation recommendations.

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

¥Fire-treated, marine grade or other chemically treated plywood panels are not acceptable substrates.

§ To use for pipe penetration, please consult LATICRETE technical department.

Exterior Substrates

Please consult LATICRETE Technical Services for approval prior to use for all exterior applications. There is a maximum height restriction of 9.1 m (30 ft).

- Concrete
 - Must be minimum 150 mm (6") thick reinforced
 - Must be minimum 24 MPa (3500 psi)
 - Must be minimum 28 days old prior to installation
- CMU - Double wythe walls only

Cartridge Pack Coverage

One carton (15 cartridges) will yield approximately 14 m² (150 ft²) with 6 mm (1/4") thick dabs, or 27 m² (300 ft²) with 3 mm (1/8") thick dabs when covering 10% of the veneer surface.

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 Inches (or millimeters) Out of Plumb	LATAPOXY® 310 Thickness	Approx. Coverage/ 10 Liter Unit
Plumb Wall	3 mm Thick (1/8")	27–30 m ² (300–325 ft ²)
6 mm (1/4")	6 mm Thick (1/4")	14–16 m ² (150–170 ft ²)
12 mm (1/2")	12 mm Thick (1/2")	7–7.5 m ² (75–80 ft ²)

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at >0°C (>32°F) to < 43°C (<110°F).

Limitations

- Surface temperature for application: 10°C (50°F) — 35°C (95°F).
- For exterior applications, please contact LATICRETE Technical Services or e-mail enquiry@laticrete.me for approval prior to use.
- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- Sandstone, slate and fissile stones are not recommended veneers and should not be used with LATAPOXY 310 Rapid Stone Adhesive. These stones and other porous stones may delaminate or break apart due to the nature of their porous and layered composition.
- DO NOT bond to particle board fire-retardant plywood, marine grade plywood, luan, Masonite®, any chemically treated plywood, or hardwood surfaces.

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 or L/600 for exterior veneers where L=span length (except where local building codes specify more stringent deflection requirements)

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 and or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Consult local building code for requirements.

- Do not install directly over single layer wood floors, plywood tubs/showers/fountains or similar constructs.

TECHNICAL DATA

GREENGUARD: This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment

DCLD: This product has been certified for Low Emitting Materials by Dubai Central Laboratory Department (DCLD) of Dubai Municipality. No.CL20020733: 2017 Al Sa'fat Dubai Green Building Evaluation System.

Physical Properties

LATAPOXY 310 Stone Adhesive

Test	Test Method	Results
Consistency	LATICRETE in house	No sag in thickness to 1 inch (25 mm)
Pot Life at 72°F (20°C)	LATICRETE in house	30–45 minutes
Set Time at 72°F (20°C)	LATICRETE in house	5–6 hours
Shear Bond Strength Marble to Concrete	ANSI A118.3–5.5 ^A	5–6.3 MPa (730–920 psi)
Compressive Strength	ANSI A118.3–5.6	57–58 MPa (8300–8450 psi)
Tensile Strength	ANSI A118.3–5.7	10.3–14.5 MPa (1500–2100 psi)
Thermal Shock	ANSI A118.3–5.8 ^{AA}	7–11 MPa (1030–1600 psi)

^A modified test method

^{AA} tile modified to porcelain tile

Test	Test Method	ISO 13007-1 R2 Specification	Results
7-day cure shear adhesive strength	ISO 13007-2 4.3.4	2 MPa (290 psi)	18 – 33 MPa (2610–4785 psi)
7-day cure 21-day water immersion shear adhesive strength	ISO 13007-2 4.3.5	2 MPa (290 psi)	14–34 MPa (2030–4930 psi)
7-day cure 4 100°C boiling water cycles shear adhesive strength	ISO 13007-2 4.3.8	2 MPa (290 psi)	22–36 MPa (3190–5220 psi)
Open time after 20 minutes	ISO 13007-2 4.1	0.5 MPa (73 psi)	2.8–3.8 MPa (406–551 psi)
Slip	ISO 13007-2 4.2	Less than or equal to 0.5 mm (0.02 in)	0.1–0.3 mm (0.0039–0.012 in)
Transverse deformation	ISO 13007-2 4.5	Greater than or equal to 2.5 mm (0.1 in) and less than 5 mm (0.2 in)	3.2–3.6 mm (0.13–0.14 in.)

LATAPOXY® 310 Stone Adhesive is ISO 13007-1 R2T

Working Properties

LATAPOXY® 310 Stone Adhesive

Consistency	No Sag in Thickness to 25 mm (1")
Pot Life @ 20°C (72°F)	30–45 minutes
Set Time @ 20°C (72°F)	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 (40°F)	100 minutes	10 hours
21°C (70°F)	45 minutes	5–6 hours
32°C (90°F)	25 minutes	2.5–3 hours

INSTALLATION

Preparation

- Store resins at room temperature (>70°F [>21°C]) for 24 hours before using.
- All surfaces must be sound, clean, and 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 ANSI specification A108.01-3.7 "Requirements for Movement Joints: Preparations by Other Trades" or TCNA detail EJ-171 "Movement Joints—Vertical & Horizontal".
- Do not cover expansion joints with mortar.
- Finished veneers equipped with any type of resin, mesh, epoxy or fiberglass backing must be ground down to the 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 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 50mm (2").
- Module Weight – 73 kg/m² (20 lb/ft²) unless otherwise approved by project engineer.

2. Exterior Porcelain Tile (applications)

- Thickness – units shall not exceed 16mm (5/8").
- Facial Dimensions – maximum of 0.28m² (432 in²) and no greater than 610mm (24") along any edge or dimension.
- Module Weight – 44.2 kg/m² (9 lb/ft²) unless otherwise approved by project engineer.

3. Exterior Stone Applications

- Thickness – units shall not exceed 50mm (2")
- Facial Dimensions – maximum of 720 in² (0.46m²) and no greater than 36" (915mm) along any edge or dimension.
- Module Weight – 15 lb/ft² (73 kg/m²) unless otherwise approved by project engineer.

- Height – No more than 9.1 m (30 ft)

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 volumes of LATAPOXY 310 Stone Adhesive Part A and Part B (1:1 mix ratio by volume). 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 1/8" (3 mm), maximum of 1" (25 mm).

Approximate Dab Diameter Required to Achieve 10% Coverage With 5 Dabs:

Tile Size	Dab Diameter
300 mm X 300 mm (12" x 12")	50 mm (2")
600 mm X 600 mm (24" x 24")	100 mm (4")
900 mm X 900 mm (36" x 36")	150 mm (6")

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

Joint Treatment

Exterior Applications:

Use LATASIL™ to treat all joints.

For further instructions please refer to the data Sheet 6200.me

Interior Applications:

The following products may be used:

- SPECTRALOCK PRO Grout
- SPECTRALOCK® PRO Premium Grout
- 1500 Sanded Grout or 1600 Unsanded Grout mixed with 1776 Grout Enhancer
- LATASIL
- PERMACOLOR® Grout
- PERMACOLOR Select

Test area to ensure proper filling as narrow veneers and wider 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.

AVAILABILITY AND COST

Availability

LATICRETE® materials are available worldwide.

For distributor information, please contact us by email at:

enquiry@laticrete.me or, visit www.laticrete.me

Cost

Contact a LATICRETE® closer distributor to obtain complete information and cost.

WARRANTY

The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of one (1) year. Contact Technical Support for further information. Please consult our technical support for further information on the System Warranty and extended warranty.

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TECHNICAL SERVICES

Technical assistance

For information contact:

enquiry@laticrete.me

Technical and safety literature

To obtain technical and safety literature, please visit our website at: www.laticrete.me

Warning: The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE® products must conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.