



LATAPOXY[®] 310 Stone Adhesive for Exterior Installations TDS 158

LATAPOXY[®] 310 Stone Adhesive and LATAPOXY 310 Rapid Stone Adhesive are two-component, high strength construction epoxy adhesives for spot bonding large format tile and stone on vertical surfaces. LATAPOXY 310 Stone Adhesive and LATAPOXY 310 Rapid Stone Adhesive replace traditional mechanical anchoring, plaster and wire, and thin-set methods of veneer installations. Using LATAPOXY 310 Stone Adhesive and LATAPOXY 310 Rapid Stone Adhesive eliminate drilling, cutting of kerfs or setting of pins. This allows for quick and easy plumb adjustment while the stone is in place to compensate for uneven walls and thickness variations in the stone.

The LATAPOXY 310 Cordless Mixer is designed to make the installation of LATAPOXY 310 Stone Adhesive cleaner and easier. The LATAPOXY 310 Cordless Mixer is a dual component cordless mixer that quickly and easily dispenses LATAPOXY 310 Stone Adhesive or LATAPOXY 310 Rapid Stone Adhesive, packed in cartridges, onto ceramic tile and stone for veneer installations.

Before using LATAPOXY 310 Stone Adhesive or LATAPOXY 310 Rapid Stone Adhesive on an exterior application, please first consult LATICRETE Technical Services 800.243.4788 x235 or 203.393.0010 x235 for approval prior to use.

For exterior applications outside of North America, consult the International department at 800.243.4788 x242.

The following are general application requirements for using LATAPOXY 310 Stone Adhesive or LATAPOXY 310 Rapid Stone Adhesive for exterior installations as designated by International Code Council (ICC).

Always check with local building code prior to the application of veneer in an exterior application for compliance to local restrictions and codes.

Maximum height of 30' (9.1 m) for installations of tile and stone unless approved by an engineer or qualified design professional.

Tile or stone maximum thickness shall be not greater than 2" (50 mm) thick, or more than 720in.² (.465 m²) in facial dimension* unless approved by an engineer or qualified design professional.

Tile or stone weight shall be no greater than 15 lbs. ft² (73 kg/m²) unless approved by an engineer or qualified design professional.

Suitable Substrates:

Concrete (poured, pre-cast, tilt-up)

- Concrete must be minimum 6" (15 cm) thick and steel reinforced
- Concrete must be minimum 3500psi (24 MPa) compressive strength
- Concrete must be minimum 28 days old prior to installation

Concrete Masonry Units – double wythe walls only with a minimum 2" (5 cm) air gap

Substrate and Tile Preparation:

Surface temperature for application: 50°F (10°C) to 95°F (35°C).

Evaluate the wall prior to installing the veneer. Check for any areas that are severely out of plumb. Drop a line from the top and identify any high points or depressed areas. Make sure the veneer can be installed to its intended height without significant deviation in substrate plane.

Surfaces must be structurally sound, stable and rigid enough to support ceramic tile or stone. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for ceramic tile installations or L/480 for stone installations.

All surfaces must be sound, clean, free of oil, waxes, frost, curing agents or contamination. Surfaces treated with form release agents or other bond inhibiting contaminants must be mechanically scarified. Concrete surfaces may be damp, not wet, when application is made.

Slate and other fissile stone may delaminate due to the nature of their layered composition. Always check with the tile or stone factory to make sure the tile or stone is suitable for wall installations. Manufacturers of such stone must provide written approval to the installer that the stone is suitable for their application.

Clean and grind back of stone at areas to receive LATAPOXY® 310 Stone Adhesive or LATAPOXY 310 Rapid Stone Adhesive using a mechanical wheel grinder with a diamond wheel/blade. Remove dust with a stiff brush, 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. Allow to air dry or wipe dry with a clean cloth, then apply LATAPOXY 310 Stone Adhesive or LATAPOXY 310 Rapid Stone Adhesive.

Do not apply LATAPOXY 310 Stone Adhesive or LATAPOXY 310 Rapid Stone Adhesive onto tile or stone covered with any type of mesh or resin backing. Completely grind resin off of the areas to receive adhesive before application.

Application of LATAPOXY 310 Stone Adhesive or LATAPOXY 310 Rapid Stone Adhesive:

Apply dabs evenly distributed on back of the stone or tile; 5 dabs minimum, one near each corner and one in the center. Cover at least 10% of the area of each piece (compressed dab). Finished dab thickness must be a minimum of 1/8" (3mm) and a maximum of 1" (25mm) thick.

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

Tile/Stone	Size Dab Diameter
12"x12" (300mm x 300mm)	2" (50mm) (each dab)
24"x24" (600mm x 600mm)	4" (100mm) (each dab)
36"x36" (900mm x 900mm)	6" (150mm) (each dab)

To check proper coverage, pull off the first stone installed to measure the diameter of each dab. Adjust the quantity of LATAPOXY 310 Stone Adhesive or LATAPOXY 310 Rapid Stone Adhesive to achieve the appropriate coverage.

** For tile or stone larger than 720in.² (4645cm²) please contact LATICRETE Technical Service at 800.243.4788 x235 or 203.393.0010 x235.*

Technical Data Sheets are subject to change without notice. For latest revision, check our website at www.laticrete.com
TDS 158.doc

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