Description Finish/Color Product Thickness

ST.1 Exterior Vaneer Cladding Light sandblasted Ghibli Granite 40mm

ST.2 Exterior Vaneer Cladding Polished Ghibli Granite 40mm

ST.3 Exterior Vaneer Cladding Polished MG-4 Ghibli Granite 40mm

ST.4 Exterior Vaneer Cladding Polished MG-4 Ghibli Granite 40mm

ST.4 Exterior Vaneer Cladding Polished MG-4 Ghibli Granite 90mm

STONE MATRIX

3 **Ghibli Granite (Color/Finish: Light Sandblast & Polished)**

MG-4 Grey Granite (Color/Finish: Polished)

Ghibli Granite (Color/Finish: Honed)

4 **Impala Black – K2 Granite (Color/Finish: Polished)**

Turkish Travertine (Color/Finish: Filled and Honed & Light Color/ Medium Color)

1. PRODUCT NAME

LATAPOXY® 310 Stone Adhesive

2. MANUFACTURER

LATICRETE International, Inc.

1 LATICRETE Park North

Bethany, CT 06524-3423 USA

Telephone: 203.393.0010, ext. 235

Toll Free: 800.243.4788, ext. 235

Fax: 203.393.1684

Internet: **www.laticrete.com**

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 95°F (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 and wainscoting.

▪ Adhesive for fabricating granite, marble and other stone.

▪ Approved by TCNA for Interior applications method W215 and W260

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 1" (25 mm) thick.

▪ Rapid version is available; 5–8 minute set up.

▪ Approved by the following building code bodies for exterior

installations: ICC, IBC.

Acceptable Substrates

Please contact LATICRETE Technical Services at 800.243.4788,

ext. 235 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 at 800.243.4788, ext.

235 for approval prior to use for all exterior applications. There is a

maximum height restriction of 30 ft (9.1 m). For exterior installations

outside of North America, contact the LATICRETE International, Inc.

International Department at 800.243.4788, ext. 242.

▪ Concrete

- Must be minimum 6" (150 mm) thick reinforced

- Must be minimum 3500 psi (24 MPa)

- Must be minimum 28 days old prior to installation

▪ CMU

- Double wythe walls only

LATAPOXY® 310 Stone Adhesive

DS-679.0-0507

Community College of Southern Nevada,

Cheyenne Campus, North Las Vegas, NV

Architect: JMA Architecture Studios, Las Vegas, NV

Contractor: Champion Tile & Marble, Las Vegas, NV

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

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Packaging

▪ Full unit 2.6 gal (10 l) kit containing the following:

- 1.3 gal (5 l) Part A pail

- 1.3 gal (5 l) Part B pail

▪ Mini unit 2 gal (8 l) kit containing the following:

- 8 mini jars of Part A .13 gal (.5 l)

- 8 mini jars of Part B .13 gal (.5 l)

▪ Cartridge packs—2.3 gal (9 l) containing the following:

- 15 cartridge packs of Part A and Part B

(For use in LATAPOXY® 310 Cordless Mixer)

▪ Commercial unit 5.2 gal (20 l) containing the following:

- 2.6 gal (10 l) Part A pail

- 2.6 gal (10 l) 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 Inches

(or millimeters) Out of Plumb

LATAPOXY® 310 Thickness Approx. Coverage/

10 Liter Unit

Plumb Wall 1/8" Thick (3 mm) 300–325 ft2 (27–30 m2)

1/4" (6 mm) 1/4" Thick (6 mm) 150–170 ft2 (14–16 m2)

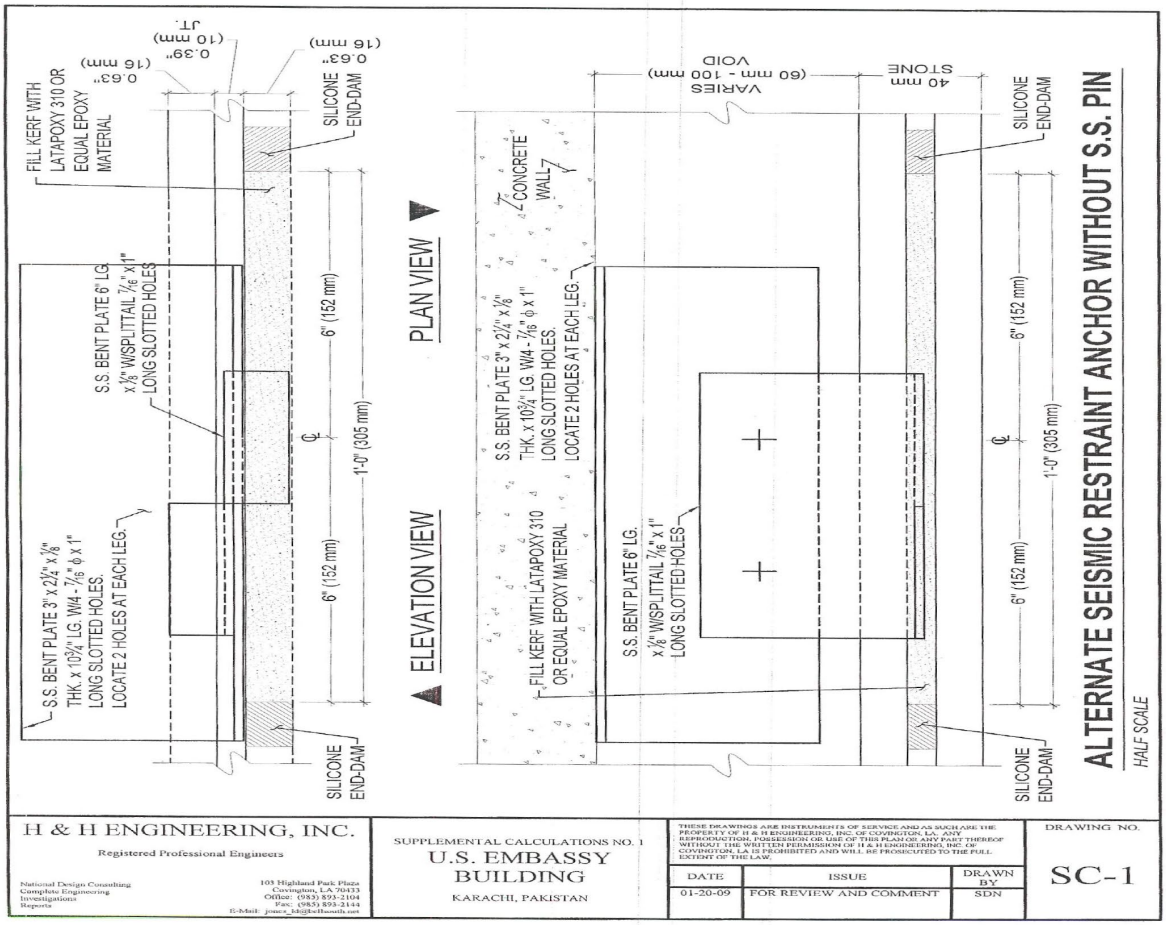
1/2" (12 mm) 1/2" Thick (12 mm) 75–80 ft2 (7–7.5 m2)

Cartridge Pack Coverage

One carton (15 cartridges) will yield approximately 150 ft2 (14 m2) with 1/4" (6 mm) thick dabs, or 300 ft2 (27 m2) with 1/8" (3 mm) 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) years if stored at >32°F (>0°C) to <110°F (<43°C).


ALTERNATE SEISMIC RESTRAINT ANCHOR WITHOUT S.S. PIN
HALF SCALE
ELEVATION VIEW
PLAN VIEW
FILL KERF WITH LATAPOXY 310 OR EQUAL EPOXY MATERIAL
S.S. BENT PLATE 3" x 2½" x ⅜" THK. x 10½" LG. W/4 - ⅞" ϕ x 1" LONG SLOTTED HOLES. LOCATE 2 HOLES AT EACH LEG.
S.S. BENT PLATE 6" LG. x ⅜" W/SPLITTAIL ⅞" x 1" LONG SLOTTED HOLES
SILICONE END-DAM
6" (152 mm)
1'-0" (305 mm)
0.63" (16 mm)
0.39" (10 mm)
1T
CONCRETE WALL
VARIES (60 mm - 100 mm) VOID
40 mm STONE
H & H ENGINEERING, INC.
Registered Professional Engineers
National Design Consulting
Complete Engineering
Investigations
Reports
103 Highland Park Plaza
Covington, LA 70433
Office: (985) 893-2104
Fax: (985) 893-2144
E-Mail: jones_hh@bellsouth.net
SUPPLEMENTAL CALCULATIONS NO. 1
U.S. EMBASSY
BUILDING
KARACHI, PAKISTAN
THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH ARE THE PEOPERTY OF H & H ENGINEERING, INC. OF COVINGTON, LA. ANY REPRODUCTION, POSSESSION OR USE OF THIS PLAN OR ANY PART THEREOF WITHOUT THE WRITTEN PERMISSION OF H & H ENGINEERING, INC. OF COVINGTON, LA IS PROHIBITED AND WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.
DATE
ISSUE
DRAWN BY
01-20-09
FOR REVIEW AND COMMENT
SDN
DRAWING NO.
SC-1

Stone Adhesive

ST-3 MG-4 Grey Granite Colour Finish Polished

ST-6 Ghibli Granite Colour Finished Honed.

Limitations

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

▪ For exterior applications, contact Technical Services at 800.243.4788, ext. 235 or **support@laticrete.com** 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 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.

4. TECHNICAL DATA

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* 730–920 psi

(5–6.3 MPa)

Compressive Strength ANSI A118.3–5.6 8300–8450 psi

(57–58 MPa)

Tensile Strength ANSI A118.3–5.7 1500–2100 psi

(10.3–14.5 MPa)

Thermal Shock ANSI A118.3–5.8** 1030–1600 psi

(7–11 MPa)

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 1" (25 mm)

Pot Life @ 72°F (20°C) 30–45 minutes

Set Time @ 72°F (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

40°F (4°C) 100 minutes 10 hours

70°F (21°C) 45 minutes 5–6 hours

90°F (32°C) 25 minutes 2.5–3 hours

5. INSTALLATION

Preparation

Store resins at room temperature (>70°F [>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 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. Size—for tile or stone

Maximum Thickness: 2"–720 in² (50 mm–4645 cm²) in area.

For >720 in² (4645 cm²) contact LATICRETE Technical Service.

2. Module Weight—for tile or stone

Weight 15 lbs/ft² (73 kg/m²) unless approved by an engineer.

Exception—Adhered veneered units weighing less than 3 lbs/ft² (1.4 kg/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) 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

12" x 12" (300 mm X 300 mm) 2" (50 mm)

24" x 24" (600 mm X 600 mm) 4" (100 mm)

36" x 36" (900 mm X 900 mm) 6" (150 mm)

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

Joint Treatment

Exterior Applications:

Use LATICRETE® Latasil™ to treat all joints. Refer to Data Sheet 6200.1 for further instructions.

Interior Applications:

The following LATICRETE products may be used:

▪ LATICRETE SpectraLOCK™ PRO Grout

▪ LATICRETE 1500 Sanded Grout or LATICRETE 1600 Unsanded Grout mixed with LATICRETE 1776 Grout Admix

▪ LATICRETE Latasil

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.

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY materials are available worldwide.

For Distributor information, call:

Toll Free: 800.243.4788

Telephone: 203.393.0010

For on-line Distributor information, visit LATICRETE at **www.laticrete.com**.

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty

A component of:

DS 230.12: LATICRETE 10 Year System Warranty

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 the LATICRETE Technical Service Hotline (hours 8:00 AM to 5:30 PM EST):

Toll Free: 800.243.4788, ext. 235

Telephone: 203.393.0010, ext. 235

Fax: 203.393.1948

Technical and safety literature

To acquire technical and safety literature, please visit our website at **www.laticrete.com**.

10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty

DS 230.12: LATICRETE 10 Year System Warranty

DS 256.0: LATICRETE 1500 Sanded Grout

DS 258.0: LATICRETE 1600 Unsanded Grout

DS 685.0: LATICRETE SpectraLOCK PRO Grout

DS 679.3: LATAPOXY 310 Rapid Stone Adhesive

DS 6200.1: LATICRETE Latasil

DS 683.0: LATAPOXY 310 Cordless Mixer

DS 265.0: LATICRETE 1776 Grout Admix

DS-679.0-0507

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1. PRODUCT NAME

LATAPOXY® 310 Cordless Mixer

2. MANUFACTURER

LATICRETE International, Inc.

1 LATICRETE Park North

Bethany, CT 06524-3423 USA

Telephone: 203.393.0010, ext. 235

Toll Free: 800.243.4788, ext. 235

FAX: 203.393.1684

Internet: **www.LATICRETE.com**

3. PRODUCT DESCRIPTION

The LATAPOXY 310 Cordless Mixer is an exclusive dual component cordless mixer that quickly and easily dispenses LATAPOXY 310 Stone Adhesive onto ceramic tile, porcelain and stone veneers. Hundreds of square feet can be installed per day with less effort and greater success with this system. Compared to other cladding installation systems such as mechanical anchors, plaster & wire and thin-set, the LATAPOXY 310 system provides unmatched speed,

versatility and productivity. Perfect for all interior cladding of tile, stone and porcelain veneers as well as approved exterior applications.

LATAPOXY® 310 Cordless Mixer

DS-683.0-0307

1. PRODUCT NAME

LATAPOXY® 310 Cordless Mixer

2. MANUFACTURER

LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA
Telephone: 203.393.0010, ext. 235
Toll Free: 800.243.4788, ext. 235
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The LATAPOXY 310 Cordless Mixer is an exclusive dual component cordless mixer that quickly and easily dispenses LATAPOXY 310 Stone Adhesive onto ceramic tile, porcelain and stone veneers. Hundreds of square feet can be installed per day with less effort and greater success with this system. Compared to other cladding installation systems such as mechanical anchors, plaster & wire and thin-set, the LATAPOXY 310 system provides unmatched speed, versatility and productivity. Perfect for all interior cladding of

tile, stone and porcelain veneers as well as approved exterior

applications.

Uses

▪ Used exclusively with LATAPOXY 310 Stone Adhesive to install

various stone and tile on vertical surfaces.

▪ Virtually any interior cladding application of stone or tile in

lobbies, malls, store fronts, banks, schools, hospitals etc.

▪ For cladding exterior veneer facades*.

▪ Jobs requiring fast turn around time.

▪ Great for tight spaces and on scaffolding.

* Consult LATICRETE® Technical Services for approval prior to all exterior applications.

Advantages

▪ Unmatched speed & productivity for vertical installations.

▪ Cordless for convenience—great for scaffolding and tight

areas.

▪ Patented design and gear system.

▪ High output motor for long life.

▪ Automatic reverse.

▪ Speed and dosing controls for easier operation.

Packaging

▪ One Cordless Mixer per carton, containing:

- One Battery Charger

- One 14.4 Volt Battery

- Owner's Manual

- Rebate Redemption Card

▪ LATAPOXY 310 Mixing Nozzles (must be ordered separately)

- 12 per carton

- Part Number RT8480500

Suitable Substrates

Read LATAPOXY 310 Stone Adhesive, Data Sheet 679.0 and 679.3 for specific information.

Novartis Pharmeceutical, Boston, MA

Architect: The Stubbins Associates

Contractor: Port Morris Tile & Marble, Boston, MA

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Uses

▪ Used exclusively with LATAPOXY 310 Stone Adhesive to install various stone and tile on vertical surfaces.

▪ Virtually any interior cladding application of stone or tile in lobbies, malls, store fronts, banks, schools, hospitals etc.

▪ For cladding exterior veneer facades*

▪ Jobs requiring fast turn around time

▪ Great for tight spaces and on scaffolding

* Consult LATICRETE® Technical Services for approval prior to all exterior applications.

Advantages

▪ Unmatched speed & productivity for vertical installations

▪ Cordless for convenience—great for scaffolding and tight areas

▪ Patented design and gear system

▪ High output motor for long life

▪ Automatic reverse

▪ Speed and dosing controls for easier operation

Packaging

▪ One Cordless Mixer per carton, containing:

- One Battery Charger
- One 12V battery
- Owner Manual
- Rebate Redemption Card

▪ LATAPOXY 310 Mixing Nozzles (must be ordered separately)

- 12 per carton
- Part Number RT8480500

Suitable Substrates

Read LATAPOXY 310 Stone Adhesive, Data Sheet 679.0 for specific information.

Limitations

▪ Consult LATICRETE Technical Services for approval on exterior applications.

▪ Not for use with any adhesives other than LATAPOXY® 310 Stone Adhesive.

▪ LATAPOXY 310 Stone Adhesive MUST be conditioned to at least

65°F (18°C) prior to use. Consult LATAPOXY 310 Stone Adhesive data sheet DS 679.0 and DS 679.3.

▪ Do not abuse, misuse, or modify tool in anyway

▪ Do not use for any application other than those described herein.

▪ Follow proper installation and operation instructions in Owners Manual DS 683.5.

▪ Repairs may only be made by approved LATICRETE personnel.

Cautions

▪ Read & understand battery pack and charger manual included in LATAPOXY 310 Cordless Mixer fully prior to use.

▪ Failure to condition material to 65°F (18°C) prior to use will cause failure of cartridge and incomplete adhesive mix.

4. TECHNICAL DATA

Cordless Mixer Tool Weight 9 lbs (4.05 kg)

Cordless Mixer Dimensions 17" x 3.5" x 13.5 (43 x 9 x 34 cm)

Battery Information 14.4 Volt Nicad

Charger information One hour quick charge

Capacity 22 oz (616 grams) 1:1 ratio only

5. INSTALLATION

Storage

Condition LATAPOXY 310 Stone Adhesive at 65°F (18°C) to allow for easier application prior to use.

Surface Preparation

See LATAPOXY 310 Stone Adhesive data sheet DS 679.0 and DS 679.3.

Operating Instructions

1.0–Battery and Charging

Use only the 14.4 V battery in the charger provided. Other battery types may cause personal injury and or damage. Please read the charging manual included with each Cordless Mixer for specific information regarding safety and charging.

▪ Charge battery to full capacity prior to use.

▪ Charging time will vary according to voltage supply, the amount of the charge needed for that battery and temperature.

▪ Temperature will affect battery life. It is best to charge when temperature is between 60–80°F (15–27°C).

Do not charge when temperature drops below 40°F (5°C) or above 105°F (40°C).

▪ Estimate roughly 30 to 45 min to fully charge a battery

2.0–Tool Set Up & Loading

1. Open clutch lever.
2. Grasp rack handle and pull outward until fully open.
3. Insert one LATAPOXY 310 Cartridge Pack into the Cartridge Housing, pushing tip through the hole at end of housing.
4. Push rack forward until pistons make contact with back of cartridge.
5. Close clutch.

6. Remove protective tip by inserting screwdriver tip into slot on top of cartridge and simply pry off to open both sides of cartridge.

7. Screw mixing nozzle onto the thread tightly.

Note: Remember to condition the material to at least 65°F (18°C) prior to using!

3.0–Dispensing

1. Squeeze trigger to begin dispensing material. Adjust the dispensing speed as desired by turning the dial on side of tool. You will see the red and white components mix as they ar pushed through the static mixer. Make sure material is uniform in color when dispensed from the nozzle.

2. Hold the Mixer at an angle on the tile or stone to be adhered. Push the material into the veneer by using a circle motion and using the edge of the nozzle to “key” the material as it is dispensing.

Note: LATAPOXY 310 Cordless Mixer is equipped with an automatic reverse that engages after trigger is released to reduce any leakage. Build height of dab as needed to achieve plumb surface.

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

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

Tile/Stone Size Dab Diameter

12" x 12" (300 mm X 300 mm) 2" (50 mm)

24" x 24" (600 mm X 600 mm) 4" (100 mm)

36" x 36" (900 mm X 900 mm) 6" (150 mm)

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Note: Pull off the first stone installed to measure the diameter of each dab. Adjust the quantity of LATAPOXY® 310 Stone Adhesive to achieve the appropriate coverage. Once the correct amount has been determined, set Dosing Knob to obtain the consistent level for all stones.

4. Dispense all the material until the rack drive is completely at the end of the cartridge and can not move any longer. You are now ready to remove the used cartridge and replace with a new one.

4.0–Cartridge Removal and Replacement

1. Tool will automatically turn off once cartridge is emptied and the rack drive has reached its maximum extension.

2. Unscrew Mixing Nozzle and set aside. Open clutch and pull rack handle to full open position. Remove emptied cartridge.

3. Insert new cartridge and follow instructions in Operating Instructions, section 2. Make sure to snap off protective tip of cartridge before screwing on Mixing Nozzle.

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY materials are available worldwide.

For Distributor information, call:

Toll Free: 800.243.4788

Telephone: 203.393.0010

For on-line Distributor information, visit LATICRETE at

www.laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEMS:

DS 230.13: LATICRETE® Product Warranty

8. MAINTENANCE

Your LATAPOXY 310 Cordless Mixer has been designed to provide dependable operation. There is no regular maintenance needed however it is important to keep the tool clean and free from adhesive build up. Effort must be made to keep adhesive, dirt and foreign objects off rack drive which may get caught in motor. Observe the following:

DS-683.0-0307

1. Keep rack drives free from any adhesive or other debris. Remove any un-cured LATAPOXY 310 Stone Adhesive thoroughly with damp wire brush and dry cloth. DO NOT RINSE TOOL WITH

WATER! Cured adhesive on rack drives will require removal via wire brush. Consult LATICRETE Technical Services.

2. Keep face of pistons clean, free from any LATAPOXY 310 Stone Adhesive to allow for proper contact with cartridge plungers. Adhesive build up on pistons may cause uneven force on cartridge and subsequent failure.

Keep battery terminal hook up clean, free from any dirt, debris or contaminants.

9. TECHNICAL SERVICES

Technical assistance

Information is available by calling the LATICRETE Technical Service Hotline (hours 8:00 AM to 5:30 PM EST):

Toll Free: 800.243.4788, ext. 235

Telephone: 203.393.0010, ext. 235

Fax: 203.393.1948

Email: technicalservices@laticrete.com

Technical and safety literature

To acquire technical and safety literature, please visit our website at **www.laticrete.com**. and **www.spectralock.com**

10. FILING SYSTEM

Additional product information is available on our website at **www.laticrete.com**.

The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty

DS 679.0: LATAPOXY 310 Stone Adhesive

DS 679.3: LATAPOXY 310 Rapid Stone Adhesive

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2007

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Form **F 7.3.29**

MATERIAL SAFETY DATA SHEET

Rev: **B**

Page: **1 of 5**

Date: **01/25/07**

MATERIAL SAFETY DATA SHEET

---------- I. PRODUCT IDENTIFICATION ----------

TRADE NAME (as labeled): LATAPOXY® 310 Stone Adhesive Part A

CHEMICAL FAMILY: Amine Mixture

MANUFACTURER'S NAME: LATICRETE INTERNATIONAL, INC.

1 Laticrete Park, N.

Bethany, CT 06524-3423 USA

Phone number for additional information: (203) 393-0010

Date prepared or revised: 1/09 Name of preparer: S.B. Fine

---------- II. HAZARDOUS INGREDIENTS ----------

CHEMICAL NAMES

CAS

NUMBERS

PERCENT

ACGIH TLV

OSHA PEL

OTHER

(SPECIFY)

Tall oil fatty acid

reaction products

with

tetraethylpentamine

68953-36-6 6-8 N/A N/A N/A

Benzyl alcohol 100-51-6 3-4 10 ppm N/A N/A

1,2

aminoethylpiperazine

140-31-8 1-2 N/A N/A N/A

tetraethylpentamine 112-57-2 1-2 N/A N/A N/A

Nonylphenol 25154-52-3 2-3 N/A N/A N/A

N/A = Not applicable or available

---------- III. HEALTH HAZARD INFORMATION ----------

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure. (Possible Longer Term

Effects) N/A

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Inhalation: Harmful if inhaled. Vapors/mists may be corrosive to upper respiratory tract. Can cause

severe respiratory tract burns.

Ingestion: Harmful if swallowed. Can cause severe burns of the mouth and throat as well as

perforation of the esophagus and stomach.

Skin Contact: Corrosive. Harmful to skin. May cause skin burns. May cause sensitization.

Eye Contact: Corrosive to the eyes and may cause severe damage or blindness.

SUSPECTED CANCER AGENT?

x NO: This product's ingredients are not found in the lists below.

YES: Federal OSHA NTP IARC

----------IV. FIRST AID: EMERGENCY PROCEDURES----------

Eye Contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15

minutes. Get medical attention immediately.

Skin Contact: Wash thoroughly with plenty of soap and water. If irritation persists, seek medical

advice.

Inhaled: Remove to fresh air.

Swallowed Do not induce vomiting. Give one glass of water, seek medical attention

---------- V. FIRE AND EXPLOSION ----------

Flash Point method): 200oF

Auto ignition temperature, □F: N/A

Flammable limits in air, volume %: Lower (LEL) Upper (UEL)

Fire extinguishing materials:

x water spray x carbon dioxide other:

x foam x dry chemical

Special fire fighting procedures: Fire fighters and others who may be exposed to the products of

combustion should be equipped with NIOSH approved positive pressure self-contained breathing

apparatus (SCBA) and full protective clothing. Keep people away, stay upwind, and isolate the fire

area

Unusual fire and explosion hazards: May emit oxides of carbon and nitrogen

---------- VI. SPILL, LEAK, AND DISPOSAL PROCEDURES ----------

Spill response procedures (include employee protection measures): Scrape or sweep up material.

Wear impervious gloves and safety goggles.

Preparing wastes for disposal (container types, neutralization, etc.): Incinerate or bury in landfill in

accordance to all applicable regulations. Cured product is not a hazardous waste.

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

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----------VII. Handling and Storage----------

Store in cool, dry, well ventilated area below 90 degrees F. Do not freeze.

---------- VIII. Exposure Controls and Personal Protection ----------

Ventilation and engineering controls: None required.

Respiratory protection (type): None required

Eye protection (type): Safety Glasses or Goggles

Gloves (specify material): When mixing by hand appropriate impervious gloves are recommended.

Because a wide variety of protective gloves exist, consult glove manufacturer for recommendations

Other clothing and equipment: Long sleeved clothing

Work practices, hygienic practices: Normal good housekeeping

Other handling and storage requirements: Store in cool, dry, well ventilated area below 90 degrees

F. Do not freeze.

Protective measures during maintenance of contaminated equipment: See above

---------- IX. PHYSICAL PROPERTIES ----------

Vapor density (air=1): N/A Melting point or range, □F: N/A

Specific gravity: 1.5 Boiling point or range, □F: N/A

Solubility in water: Negligble Evaporation rate (butyl acetate = 1): N/A

Vapor pressure, mmHg at 20□C: N/A VOC: <1%

Appearance and odor: Red paste

HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust, or

mist): N/A

---------- X. REACTIVITY DATA ----------

Stability: x Stable Unstable

Conditions to avoid: Mixing quantities greater than one pound will cause a hazardous exothermic

(heat releasing) reaction.

Incompatibility (materials to avoid): None

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Hazardous decomposition products (including combustion products): (from burning, heating, or

reaction with other materials). Oxides of carbon and nitrogen

Hazardous polymerization: May occur x Will not occur

Conditions to avoid: N/A

-

----------XI. Toxicology Information----------

Hazardous

Ingredient

Oral Dermal Inhale

Tall oil fatty acid

reaction products

with

tetraethylpentamine

>2000

mg/kg

(rat)

8550 mg/kg

(rabbit)

N/A

tetraethylpentamine >2000

mg/kg

(rat)

8550 mg/kg

(rabbit)

N/A

Benzyl alcohol 1230-

3100

mg/kg

(rat)

2000 mg/kg

(rabbit)

1000

ppm

(rat)

1,2

aminoethylpiperazin

e

2108

mg/kg

(rat)

>880 mg/kg

(rabbit)

N/A

Nonylphenol >1620

mg/kg

(rat)

>1000

mg/kg

(rabbit)

N/A

----------XII. Ecological Information----------

Ecotoxicicity in water Fathead

minnow

Bluegill

sunfish

Tidewater

silverside

fish

Daphnia algae

Tall oil fatty acid

reaction products with

tetraethylpentamine

N/A N/A N/A N/A N/A

tetraethylpentamine N/A N/A N/A N/A N/A

Benzyl alcohol 460 ppm 10 ppm 15 ppm 360 ppm N/A

1,2

aminoethylpiperazine

N/A N/A N/A N/A N/A

Nonylphenol 0.128

mg/l

N/A N/A 0.0848

mg/l

140-

200

mg/l

----------XIII. Disposal Information----------

Dispose in compliance with local, state, and federal regulations.

----------XIV. Transport Information----------

Flammability Class: IIIB

Department of Transportation Classification

Corrosive Liquid N.O.S. Class 8 UN2735 PG III contains (Nonylphenol and aminoethylpiperazine)

Air Regulations Corrosive Liquid N.O.S. Class 8 UN2735 PG III contains (Nonylphenol and

aminoethylpiperazine) and Aviation regulated liquid N.O.S. Polymercaptan Hazard Class 9 Danger

Label 9 UN1334

Other Requirements

Inner Packagings not over 1.0 Liter (0.3 gallon) packed in strong outer packagings are marked as

“ORM-D” Consumer Commodity

----------XV. Regulatory Information----------

All ingredients are listed on the U.S. EPA TSCA inventory of chemical substances.

Right to Know

This product contains a chemical known to the State of California to cause cancer or reproductive

harm.

----------XVI Other Information----------

This information is furnished without warranty, representation, inducement or license of any kind;

except that it is accurate to the best of our knowledge, or obtained from sources believed by us to be

accurate.

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