



LATAPOXY® 210 Adhesive

DS-630.0-0817

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

LATAPOXY® 210 Adhesive

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

LATAPOXY 210 Adhesive is a modified emulsion epoxy adhesive designed for the installation and grouting of ceramic tile and stone on most sound, clean surfaces. LATAPOXY 210 Adhesive is a factory proportioned kit consisting of emulsified epoxy resin and hardener, and pre-blended portland cement and silica sand powder.

Uses

For commercial and residential installations of ceramic tile and stone over most sound, clean surfaces. Use where installations must resist physical abuse, shock and mild chemicals (interior & exterior).

Advantages

- High Bond Strength
- Non-Toxic, Non-Flammable
- Economical
- Water Cleanable
- Easy to Use
- Mild Chemical Resistance

Suitable Substrates

- Concrete
- Exterior glue plywood*
- Concrete masonry
- Brick masonry
- Steel
- Vinyl or other resilient tile*
- Cement mortar beds
- Gypsum wallboard*

- Cement plaster
- Cement terrazzo
- Plastic laminate*
- Existing ceramic tile and stone
- Cement backer board**
- HYDRO BAN® Board***

* Interior application only.

** Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

*** Consult product datasheet (DS-040.0) for specific installation recommendations

Packaging

Single Unit: 38 lb (17 kg) pails; 48 pails per pallet

Double Unit: 75 lb (33.75 kg) cartons; 27 cartons per pallet

Colors: Grey, White

Coverage

Each single unit makes approximately 2.5 U.S. gallons (9.5 liters) of adhesive and will install approximately:

Ceramic & Mosaics	70–80 ft ² (6.5–7.4 m ²)
Wall Tile 1/8" x 1/8" (3 mm x 3 mm) trowel	80–90 ft ² (7.4–8.3 m ²)
Quarry Tile 1/4" x 1/4" (6 mm x 6 mm) trowel	40–50 ft ² (3.7–4.6 m ²)
Large Tile & Stone 1/4" x 3/8" (6 mm x 9 mm) trowel	30–40 ft ² (2.7–3.7 m ²)
Decorative Tile With Lugs 1/2" x 1/2" (12 mm x 12 mm)	25–35 ft ² (2.3–3.2 m ²)

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years***.

*** High humidity will reduce the shelf life of bagged product.

Limitations

- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- DO NOT use below 40°F (4°C).
- For maximum chemical resistant grout, use LATAPOXY 2000 Industrial Grout.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE® Waterproofing Membrane (see Section 10 FILING SYSTEMS).

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 (except where local building codes specify more stringent deflection requirements)

Cautions

Consult MSDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Until cured, LATAPOXY® 210 Adhesive may irritate eyes and skin. Avoid contact with eyes and or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Contains portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Use LATAPOXY 300 Adhesive for installing green and water sensitive marble and agglomerates, or when chemical resistance is required.
- Wait 14 days after the final grouting period before filing water features with water at 70°F (21°C).
- Use white mortar for white or light-colored marble and stone.
- DO NOT take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- DO NOT bond to particle board, luan, Masonite® or hardwood surfaces.
- Keep out of reach of children.

4. TECHNICAL DATA

Applicable Standard

ANSI A118.8

Performance Properties

Test	Test Method	Results	ANSI A118.8 Specification
Water Cleanability	ANSI A118.8 5.1	>40 minutes	>40 minutes
Quarry Tile Shear Strength	ANSI A118.8 5.4.2	250–305 psi (1.7–2.1 MPa)	>300 psi (2.1 MPa)
Compressive Strength	ANSI A118.8 5.8	3100–3500 psi (21.4–24.1 MPa)	>2600 psi (18.3 MPa)
Tensile Strength	ANSI A118.8 5.9	350–400 psi (2.4–2.75 MPa)	>300 psi (2.1 MPa)
Flexural Strength	ANSI A118.8 5.10	800–855 psi (5.5–5.9 MPa)	>850 psi (5.0 MPa)

From RLS 979 report.

Working Properties (70°F [21°C])

Open Time	1 hour
Pot Life	1 hour
Time to Traffic	24 hours
Wet Density	107 lbs/ft³ (1717 kg/m³)

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.

Chemical Resistance Chart at (70°F [21°C])

CHEMICAL RESISTANCE CHART LATAPOXY® 210 MODIFIED EPOXY ADHESIVE		
REAGENT TYPE	LATAPOXY 210 Modified Epoxy Adhesive EXPOSURE LEVEL	
	Intermittent ^A	Constant ^{AA}

Citric Acid 10%	R	R
Sulfuric Acid 1%	R	R
Hydrochloric Acid 1%	R	R
Lactic Acid 5%	R	NR
Vinegar	R	R
Acetic Acid 10%	R	NR
Phosphoric Acid 5%	R	R
Sodium Hydroxide 10%	R	R
Sodium Chloride 10%	R	R
Concentrated Detergents	R	NR
Ammonium Hydroxide	R	R
Sugars	R	R
Gasoline	R	NR
Cooking Oils	R	R
Turpentine	R	R
Mineral Spirits	R	R
Toluene	NR	NR
Xylol	NR	NR

R= Recommended NR= Not Recommended

Chemical resistance determined in accordance with ASTM C267–1982.

NOTES TO SPECIFIER: Use the constant exposure recommendations for intermittent exposure to reagents at temperatures above 90°F (32°C).

^A Intermittent is less than 3 days exposure.

^{AA} Constant is 1 month exposure.

5. INSTALLATION

Surface Preparation

All surfaces should be between 40°F (4°C) and 90°F (32°C) and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with Latex Portland Cement Underlayment to provide a wood float (or better) finish. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. New concrete slabs must be damp cured and at least 7 days old prior to application. All slabs must be plumb and true to within 1/4" (6 mm) in 10 ft (3 m). 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.

1. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length.

2. Minimum construction for interior plywood floors.

SUBFLOOR: 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between

sheet ends and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

UNDERLAYMENT: 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (6 mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 "Bonding Ceramic Tile, Stone or Brick Over Wood Floors" for complete details.

Mixing

Shake LATAPOXY® 210 Adhesive Part A and Part B well before using. Pour LATAPOXY 210 Adhesive Part A and Part B into a clean mixing pail and mix thoroughly. Add LATAPOXY 210 Part C Filler Powder and mix to a smooth, trowelable consistency. Allow mortar to slake for 5–10 minutes. Remix and apply with the proper sized notched trowel.

Application

Apply mortar to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional mortar with the notched side.

Note: Use the proper sized notched trowel to ensure full bedding of the tile. Spread as much mortar as can be covered with tile in 15–20 minutes. Back butter large tiles >8" x 8" (>200 x 200 mm) to provide full bedding and firm support. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to embed tile and adjust level. Check mortar for complete coverage by periodically removing a tile and inspecting bedding mortar transfer onto back of tile.

Cleaning Mortar

Clean tools and tile work with water while mortar is fresh.

6. AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY materials are available worldwide.

For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

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 (United States and Canada)

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:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at www.laticrete.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 (United States and Canada)
DS 236.0: 9235 Waterproofing Membrane
DS 633.0: LATAPOXY 300 Adhesive
DS 634.0: LATAPOXY 2000 Industrial Grout
DS 663.0: HYDRO BAN®
TDS 152: "Bonding Ceramic Tile, Stone or Brick Over Wood Floors"

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