



LATAPOXY® 210 Adhesive

DS-502.0-0913

Globally Proven
Construction Solutions



1. PRODUCT NAME LATAPOXY® 210 Adhesive

2. SUPPLIER

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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. For use where installations must offer resistance to physical abuse, shock and mild chemical contact (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**

* Interior application only.

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

Packaging:

Single Unit: 17 kg pails; 48 pails per pallet
Double Unit: 33.75 kg cartons; 27 cartons per pallet

Colours:

Grey, White

Coverage:

Each single unit makes approximately 9.5 litres of adhesive and will install approximately:

Ceramic Wall tile with 3mm x 3mm trowel	7.4 – 8.3 m ²
Quarry tile with 6mm x 6mm trowel	3.7 – 4.6 m ²
Large Tile & Stone with 6mm x 9mm trowel	2.7 – 3.7 m ²
Decorative tile with lugs – 12mm x 12mm trowel	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® HYDROBAN Waterproofing Membrane

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-coloured 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

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)

Working properties:

Open time	1 hr
Pot life	1 hr
Time to traffic	24 hrs
Wet density	1717 Kg/M3

Chemical Resistance:

Chemical resistance LATAPOXY 210		
Chemical Name	Exposure level	
	Constant*	Intermittent**
Lactic acid to 5%	R	NR
Acetic acid to 10%	R	NR
Sodium chloride to 10%	R	R
Citric acid to 10%	R	R
Tartaric acid to 10%	R	R
Phosphoric acid 5%	R	R
Sodium hydroxide 10%	R	R
Concentrated detergents	R	NR
Ammonium Hydroxide	R	R

Sugars	R	R
Sulphuric acid 1%	R	R
Hydrochloric acid 1%	R	R
Xylol	NR	NR
Mineral Spirits	R	R
Toluene	NR	NR
Cooking oils	R	R
Petrol	R	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).

* Intermittent is less than 3 days exposure.

** 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 LATICRETE 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: 15 mm thick exterior WBP glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 400 mm centres maximum; fasten plywood 150 mm centres along sheet ends and 200 mm centres along intermediate supports with coated or galvanized screws. Allow 3 mm between sheet ends and 6 mm between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

UNDERLAYMENT: 15 mm thick exterior WBP glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 400 mm centres maximum; fasten plywood 150 mm centres along sheet ends and 200 mm centres along intermediate supports with coated or galvanized screws. Allow 3 mm between sheet ends and 6 mm between sheets 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

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

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide. For on-line Distributor Information, call 0151 486 6101 or visit LATICRETE UK at www.laticrete.co.uk

7. MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

8. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE UK Technical Service Hotline:

Tel: 0151 486 6101

Fax: 0151 448 1982

e-mail: sales@laticrete.co.uk

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at www.laticrete.co.uk

9. 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 assumed by the user when used incorrectly and not in accordance with LATICRETE guidelines.

The manufacturer is not responsible for any loss or damage arising from incorrect usage of this product.

The specifier or other party responsible for the project must ensure that the details in this data sheet are appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope of this specification.

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