



LATAPOXY® 210 Modified Epoxy Adhesive

PRODUCT DESCRIPTION

LATAPOXY® 210 Modified Epoxy 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 Modified Epoxy Adhesive is a factory proportioned kit consisting of emulsified epoxy resin and hardener, and pre-blended Portland cement / silica sand powder.

Application

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

Advantages

- High Bond Strength
- Fast Setting
- Chemical resistant
- Water Cleanable
- Easy to Use

Suitable Substrates

- Concrete
- Exterior Grade Plywood*
- Concrete Masonry
- Brick Masonry
- Steel & Iron
- Cement Backer Board**
- Cement Mortar Beds
- Gypsum Wallboard*
- Cement Plaster
- Cement Terrazzo
- Other Resilient Tile
- Existing Ceramic tile and stone

**Interior application only*

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

Packaging – 15 kg unit

Colour: Grey & white

Coverage

Approx 28 - 32 ft² per 15 kg unit with 1/4" x 1/4" m
(6mm x 6mm) sq. notch trowel

Coverage will vary depending on trowel notch size, type and size of tile and substrate

Shelf Life

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

Limitations

- Do Not Use Below 40°F (4°C).
- Use LATAPOXY® 300 Epoxy Adhesive for installing green and water sensitive marble and agglomerates, or when chemical resistance is required Use white mortar for white or light colored marble and stone.
- For maximum chemical resistant grout, use LATAPOXY® SP-100 Stainfree Epoxy Grout or LATAPOXY® 2000, Industrial Epoxy Grout.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproof membrane is required, use a LATICRETE® **Hydroban** / 9237 Waterproof Membrane

Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic tile/stone, 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

- During cold weather, protect finished work from traffic until fully cured.
- LATAPOXY® 210 Modified epoxy 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.

TECHNICAL DATA

Applicable Standard

ANSI A118.8-1999; EN 12004 & ISO 13007

Performance Properties

Test	Test Method	Results
Shear Bond Porcelain tile,28 days cure	ANSI A118.8; J- 5.7.4	500 psi (3.4 MPa)
Shear Bond Porcelain/Plywood, 28 days cure	Modified ANSI A118.4; F-5.2.4	200 psi (1.4 MPa)
Compressive Strength	ANSI A118.8; J-5.8.1	3500 psi (24.13 MPa)

Complies to EN & ISO standards: R1 T

Working Properties at 70°F (21°C)

Open Time	approx 20 minutes
Pot Life	Approx 1 hour
Time to Traffic	24 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.

Chemical Resistance Chart (at 70 °F/21 °C)

LATAPOXY. 210 MODIFIED EPOXY ADHESIVE	EXPOSURE	
	LEVEL	
	Intermittent*	Constant**
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	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	NR
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

* Intermittent is less than 3 days exposure.

** Constant is 1 month exposure

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).

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 shall be made on a dry surface. New concrete slabs must be damp cured and at least 28 days old prior to application. All slabs must be plumb and true to within

1/4”(6mm) in 10ft(3m). Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI Specification AN-3.8 “Requirements for Expansion Joints” or TCA Detail EJ171-91 “Expansion Joints”. Do not cover expansion joints with mortar. Glass Mesh Mortar Unit: follow TCA installation detail W244.

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” (15mm) thick exterior grade 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” (150mm) o.c. along sheet ends and 8” (200mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8” (3mm) between sheet ends and ¼” (6mm) between sheets edges; all sheet ends

must be supported by a framing member; glue sheets to joints with construction adhesive.

UNDERLAYMENT: 5/8" (15mm) thick exterior grade plywood fastened 6" (150mm) o.c. along sheet ends and 8" (200mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3mm) to ¼" (6mm) between sheets and ¼" (6mm) 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 "Requirements for Direct Bonding of Ceramic or Stone Tiles Over Wood Floors" for complete details.

3. DO NOT bond to particle board, luan, Masonite® or hardwood surfaces.

For green and moisture sensitive marbles, use LATAPOXY®300 Epoxy Adhesive

Mixing

Shake LATAPOXY® 210 Modified Epoxy Adhesive Part A and Part B well before using. Pour LATAPOXY® 210 Modified Epoxy 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 adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional adhesive with the notched side. Use the proper sized notched trowel to insure full bedding of the tile. Spread as much adhesive as can be covered with tile in 10 minutes. Back butter large tiles (> 12"x12") to provide full bedding and firm support. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to imbed tile and adjust level. Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile.

If adhesive is skinned over (not sticky), remove and replace with fresh adhesive.

Dry Wall application Note:

While using Latapoxy® 210 adhesive to install tiles/stone on Dry wall boards like Plywood, Cement Backer board,

Calcium Silicate Board, Gypsum wall board, it is important to check with the manufacturer of the board, for the load bearing capacity and internal strength of the board to sustain the loading of tiles and stones. It is recommended to commence work only on such confirmation and seek from them, the methodology of fixing of boards to keep them stable without moving and (warping) bending.

While installing tiles and stones with Latapoxy® 210, modified epoxy adhesive, on dry wall boards, it is important to see that the joint spaces between the adjacent boards should be carried up to the top of tile and the adhesive mortar is not allowed to enter the space between the boards.

While filling up the joints between the tiles and stones installed on dry wall boards, with cement based grouts, it is always recommended to use Laticrete® 1776 grout admix plus with Laticrete® Aquashield / 500 series / 600 series grout powders.

In case of grouting the above installations with Laticrete SpectraLOCK® Pro Premium Grout OR Latapoxy® SP-100 stain free epoxy grout; care should be taken to leave the joints on periphery of every board, which subsequently must be filled with flexible filler materials like silicone sealants or PU sealants.

Cold Weather Note: The setting of epoxy mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting, use LATICRETE® 252 FAST SET or LATICRETE® 73 (Rapid) Crete Admix with LATICRETE® 111 Crete filler powder. Do not set tile when surface temperature is below freezing or when substrate is frozen.

Hot Weather Note: The evaporation in epoxy mortars is accelerated by hot, dry conditions. Apply only when temperature conditions are within the specified range of temperature and protect freshly spread mortar and finished work when installing in temperatures over 95°F (35°C).

Cleaning

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

AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY® materials are available worldwide.

For distributor information:

Telephone: +91-40-30413100

FAX: +91-40-23378784

e-mail: contact@myklaticrete.com

Cost

Contact a MYK Laticrete Distributor in your area.

MAINTENANCE

LATICRETE® and LATAPOXY® product require routine cleaning with neutral pH soap and water or MYK LATICRETE Clenza series suitable cleaners. All other LATICRETE® and LATAPOXY® materials require no maintenance but proper installation as per instruction.

Performance and durability may depend on properly maintaining of Installed area.

WARRANTY

MYK Laticrete India Pvt Ltd warrants that LATICRETE® 210 Modified epoxy adhesive is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of two (2) years from manufacturing of the product subject to the terms and conditions stated in LATICRETE® Product Warranty.

TECHNICAL SERVICES

Technical assistance

Information is available by calling the MYK LATICRETE Technical Service at:

Telephone: +91-40-30413100

FAX: +91-40-23378784

e-mail: technicalservices@myklaticrete.com

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