



101 Rapid Latex Admix

DS-264.0-0311



1. PRODUCT NAME

LATICRETE® 101 Rapid Latex Admix

2. MANUFACTURER

LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 235
Toll Free: 1.800.243.4788, ext. 235
Fax: +1.203.393.1684
Internet: www.laticrete.com

3. PRODUCT DESCRIPTION

LATICRETE 101 Rapid Latex Admix is a rapid setting, latex admixture for thin set mortars, cement grouts and cement mortar beds.

Uses

Specially formulated for fast set which allows setting and grouting in the same day. For interior and exterior installations of all types of ceramic tile, brick and stone.

Advantages

- Fast setting.
- Frost proof.
- Shock resistant.
- Non-toxic.
- Non-flammable.
- Water cleanable.
- Locks in grout color.
- High bond strength.
- Ready for foot traffic in 6 hours.
- Wall and floor use.
- Fast setting in any temperature.
- Fast, easy mortar and grout cleanup.
- Meets ANSI 28-day strength in one day.

- Minimizes damage from other trades in unprotected traffic areas.

Suitable Substrates

- Concrete
- Cement mortar beds
- Ceramic tile and stone
- Concrete masonry
- Cement plaster
- Brick masonry
- Cement terrazzo
- Exterior glue plywood*
- Gypsum wallboard*
- Cement backer board**

* Interior use only.

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

Packaging

5 US gallon (19 l) pail; 36 cartons per pallet

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures $>32^{\circ}\text{F}$ (0°C) and $<110^{\circ}\text{F}$ (43°C).

Limitations

- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- 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).
- DO NOT bond to particle board, luan, Masonite® or hardwood surfaces.
- **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.

- Use LATAPOXY® 300 Adhesive for installing green marble, water sensitive stone and agglomerates and resin backed tile or stone.
- Use a white thin set mortar when installing white or light-colored natural stones.

- Wait 14 days after the final grouting period before filing water features with water at 70°F (21°C)
- During cold weather, protect finished work from traffic until fully cured.
- Keep out of reach of children.

4. TECHNICAL DATA

Applicable Standard

ANSI A118.4, A118.11

Performance Properties

LATICRETE® 101 Rapid Latex Admix mixed with
LATICRETE 272 Mortar

Test	Test Method	Results	Specification
28 day Cure Porcelain Tile Shear Strength	ANSI A118.4 5.2.4	350–400 psi (2.41–2.76 MPa)	>200 psi (1.38 MPa)
Shear Bond Porcelain Tile Water Immersion	ANSI A118.4 5.2.3	150–200 psi (1.3–1.4 MPa)	>150 psi (1.0 MPa)
7 day Cure Porcelain Tile Shear Strength	ANSI A118.4 5.2.2	300–340 psi (2.07–2.34 MPa)	>200 psi (1.38 MPa)
Compressive Strength	ANSI A118.4 6.0	2200–2500 psi (15–17 MPa)	>2500 psi (17.24 MPa)

Working Properties

LATICRETE 101 Rapid Latex Admix mixed with
LATICRETE 272 Mortar

Open Time 70°F (21°C)	15 minutes
Open Time 40°F (4°C)	20 minutes
Pot Life 70°F (21°C)	40 minutes – 1 hour 20 minutes
Pot Life 40°F (4°C)	1.5 hours
Time to Foot Traffic 70°F (21°C)	6 hours
Time to Heavy Traffic 70°F (21°C)	10 hours
Time to Foot Traffic 45°F (7°C)	10 hours
Time to Heavy Traffic 45°F (7°C)	24 hours
Wet Density	11.6 lb/gal (1.39 g/ml)

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.

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, 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.

Note: Latex portland cement mortars do not require a minimum cure time for concrete slabs. 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

Stir LATICRETE 101 Rapid Latex Admix thoroughly before use.

As a Mortar Bed Additive

Use approximately 3/4 gallon (2.85 l) of LATICRETE 101 Rapid Latex Admix to 60 lbs (27 kg) of LATICRETE 226 Thick Bed Mortar. Add LATICRETE 226 Thick Bed Mortar to LATICRETE 101 Rapid Latex Admix and mix slowly. Adjust mixture to produce a semi-dry consistency.

As a Thin-Set Additive

Use approximately 2 gallons (8 l) of LATICRETE 101 Rapid Latex Admix to 50 lbs (22.7 kg) of LATICRETE Thin-Set Mortar. Place LATICRETE 101 Rapid Latex Admix in a clean plastic pail. Do not dilute. Add LATICRETE Thin-Set mortar to LATICRETE 101 Rapid Latex Admix and mix to a smooth, trowelable consistency. Allow mortar to slake for 2–3 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

As a Grout Additive

Use approximately 1/2 gallon (2 l) of diluted LATICRETE 101 Rapid Latex Admix or 1 quart (1 l) of LATICRETE 101 Rapid Latex Admix and 1 quart (1 l) of clean water to 25 lbs (11.3 kg) of LATICRETE 1500 Sanded Grout. Add LATICRETE 1500 Sanded Grout to the diluted LATICRETE 101 Rapid Latex Admix and mix to a smooth, stiff consistency.

Note: Not recommended for white grouts.

Application

Mortar Bed

Before placing mortar, apply a slurry bond coat of LATICRETE 254 Platinum or LATICRETE 211 Powder gauged with LATICRETE 4237 Latex Additive. While the slurry bond coat is wet, spread the mortar and compact well. If placing tile immediately, apply a slurry bond coat of LATICRETE 254 Platinum or LATICRETE 211 Powder gauged with LATICRETE 4237 Latex Additive to the mortar. While the slurry bond coat is wet and sticky, place the tile and beat in well.

Thin-Set Mortar—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 10–15 minutes. Back butter large tiles >8" x 8" (>200 mm 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. If mortar is skinned over (not sticky), remove and replace with fresh mortar.

Grout

Before starting to grout, remove spacers and debris in grout joints and remove dust and dirt using a wet sponge. Do not leave water standing in joints. Apply grout release or sealer if necessary. Refer to TDS 400 “Grout Guide” for more information on grouting. Grout installation after a minimum of 4 hours curing time at 70°F (21°C). Dampen tile surface with water. Spread with a sharp, firm rubber grout float. Work the grout paste into the joints until completely filled. Use diagonal strokes to pack the joints. Ensure that joint is filled and grout is not just sitting on top (i.e. “bridging the joint”).

Cleaning Mortar

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

Grout Primary Cleaning

Remove excess grout from the face of the tiles with the edge of the grout float. Hold the float at a 90° angle and pull it diagonally across the joints and tile to avoid pulling out the material.

Grout Secondary Cleaning

Remove remaining grout with a damp sponge (not wet) or a damp towel. Work diagonally to the joints. Allow to dry. When the grout joints are firm, polish the surface with a coarse nylon pad or coarse cloth and minimal water.

Note: Use caution when polishing soft glazed tiles or polished stone.

Cold Weather Note: The setting of portland cement mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting mortar use LATICRETE® 101 Rapid Latex Admix. Do not set tile when surface temperature is below freezing or when substrate is frozen.

Hot Weather Note: The evaporation of moisture in portland cement mortars is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 95°F (35°C).

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

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: 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
DS 236.0:	LATICRETE 9235 Waterproofing Membrane
DS 633.0:	LATAPOXY 300 Adhesive
DS 259.0:	LATICRETE 272 Mortar
DS 230.1:	LATICRETE 4237 Additive
DS 239.0:	LATICRETE 211 Powder
DS 677.0:	LATICRETE 254 Platinum
DS 239.1:	LATICRETE 226 Thick Bed Mortar
DS 256.0:	LATICRETE 1500 Sanded Grout
DS 663.0:	LATICRETE Hydro Ban™
TDS 400:	Grout Guide
TDS 152:	Bonding Ceramic Tile, Stone or Brick Over Wood Floors