



101R Rapid Latex Mortar Additive

Globally Proven
Construction Solutions

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



FEATURES/BENEFITS

- Fast setting
- Frost proof
- Shock resistant
- Non-toxic and Non-flammable
- Water cleanable
- Locks in grout color
- High bond strength
- Ready for foot traffic in 6 hours
- 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

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

MANUFACTURER/ DISTRIBUTED BY

LATICRETE South East Asia Pte Ltd
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STANDARDS/CERTIFICATIONS

- BS EN 1348
- BS EN 1346
- BS EN 1308
- BS EN 12002
- ANSI 118.4, American National Standard Specifications for Modified Dry-Set Cement Mortar

Suitable Substrates

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

* Consult Laticrete Technical Services for more information.

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

Packaging

20e /pail, 36 pails per pallet.

Coverage

A pail of 101R Rapid Latex Mortar Additive will yield a coverage of 23.5 – 24.3m² when mixed with 317 Floor & Wall Thin Set Mortar using a 6 mm x 6 mm square notch trowel.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >0°C and <40°C.

Limitations

- 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 Hydro Ban Waterproofing Membrane.
- DO NOT bond to particle board, luan, Masonite® or hardwood surfaces.

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 21°C
- During cold weather, protect finished work from traffic until fully cured.
- Keep out of reach of children.

TECHNICAL DATA

Performance Properties

101R Rapid Latex Mortar Additive mixed with 317 Floor & Wall Thin Set Mortar.

Test	Test Method	Specification	Results
Tensile Adhesion Strength (6 hours)	EN 1348	≥0.5N/mm ²	>0.5N/mm ²
Tensile Adhesion Strength (28 days)	EN 1348	≥1N/mm ²	>2.1N/mm ²
Tensile Adhesion after Water Immersion (28 days)	EN 1348	≥1N/mm ²	>1.4N/mm ²
Tensile Adhesion after Heat Ageing (28 days)	EN 1348	≥1N/mm ²	>1.9N/mm ²
Open time (10mins)	EN 1346	≥0.5N/mm ²	>1.4N/mm ²
Transverse Deformation	EN 12002	2.5mm – 5mm	>2.5mm
Slip Resistance	EN 1308	≤0.5mm	0.1mm
Shear Bond Strength	ANSI A118.4	≥0.5N/mm ²	>1.6N/mm ²

Working Properties

101R Rapid Latex Mortar Additive mixed with 317 Floor & Wall Thin Set Mortar

Open Time (25°C)	20 minutes
Pot Life (25°C)	30 – 45 minutes
Time to Light Traffic	3 - 4 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.

INSTALLATION

Surface Preparation

All surfaces should be between 8°C and 35°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 6 mm in 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 glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 400 mm o.c. maximum; fasten plywood 150 mm o.c. along sheet ends and 200 mm o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or 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 glue plywood fastened 150 mm o.c. along sheet ends and 200 mm o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3 mm to 6 mm between sheets and 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.

Mixing

Stir 101R Rapid Latex Mortar Additive thoroughly before use. **Please do not mix other aggregates such as cement or sand etc to 101R Rapid Latex Mortar Additive.**

As a Mortar Bed Additive

Use approximately 2.7e - 3.1e of 101R Rapid Latex Mortar Additive (diluted 1:1 with clean water) to 27kg of 226 Thick Bed Mortar. Add 226 Thick Bed Mortar to 101R Rapid Latex Mortar Additive and mix slowly. Adjust mixture to produce a semi-dry consistency.

As a Thin-Set Additive

Use approximately 5.75e – 6.25e of 101R Rapid Latex Mortar Additive to 25kg of 317 Floor & Wall Thinset Mortar. Place 101R Rapid Latex Mortar Additive in a clean plastic pail. Do not dilute. Add LATICRETE Thin-Set mortar to 101R Rapid Latex Mortar Additive and mix to a smooth, trowelable consistency. Allow mortar to slake for 3–5 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

As a Grout Additive

Use approximately 4.4e - 4.8e of 101R Rapid Latex Mortar Additive to 20 kg of 1500 Tri-Poly Fortified Sanded Grout or use approximately 5.8l - 6.2l of 101R Rapid Latex Mortar Additive to 20 kg of 1600 Tri-Poly Fortified Unsanded Grout. Add 101R Rapid Latex Mortar Additive and mix to a smooth, stiff consistency. Use 101R Rapid Latex Mortar Additive full strength for exterior applications; dilute 1/1 with clean water for interior use.

Note: Not recommended for white grouts.

Application

Mortar Bed

Before placing mortar, apply a slurry bond coat of 211 Crete Filler Powder gauged with 4237 Thin Set 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 211 Crete Filler Powder gauged with 4237 Thin Set 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 5–10 minutes. Back butter large tiles >300 mm x 300 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 “Grout Selection and Maintenance Guide” for more information on grouting. Grout installation after a minimum of 4 hours curing time at 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 101R Rapid Latex Mortar Additive. 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 35°C.

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY materials are available worldwide. For distributor information, call:

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

For on-line distributor information, visit LATICRETE at se.laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

LATICRETE South East Asia Pte Ltd warrants that 101R Rapid Latex Mortar Additive is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to terms and conditions stated.

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.

TECHNICAL SERVICES/ CONTACT

Technical Assistance

Information is available by calling:

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Technical and safety literature

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