

LATICRETE 254 Platinum Thin-set Adhesive



PRODUCT DESCRIPTION

The ultimate one-step, polymer fortified, thin-set mortar for interior and exterior installation of ceramic tile, stone, quarry tile, pavers and brick. LATICRETE 254 Platinum, designed to just mix with water, has a long open time with unsurpassed adhesion and workability. LATICRETE 254 Platinum is a LATICRETE approved substitute for LATICRETE 111 Crete Filler Powder mixed with LATICRETE 73 LatexAdmix.

USES

Excellent for exterior and underwater applications, superior bond to exterior glue plywood and concrete. The ultimate thin-set for porcelain and glass tiles.

ADVANTAGES

- Exceeds ANSI A118.4 Shear Bond Strength Requirements & ANSIA118.11.
- Ultimate adhesion for porcelain and glass tiles.
- Incredible bond to exterior glue plywood and concrete*.
- Superior for exterior and submerged applications.
- High shear bond strength.
- Smooth creamy formula.

* See limitations.

SUITABLE SUBSTRATES

- Exterior glue plywood* . Cement terrazzo
- Properly prepared vinyl tile* . Cement backer boards**
- Concrete / Masonry . Gypsum wallboard*
- Concrete block . Gypsum plaster*
- Cement mortar beds . Plastic laminate*
- Non-water soluble cut-back adhesive*
- Existing ceramic tile and stone

* Interior use only.

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

PACKAGING

20kg bag

Color: Grey and White

APPROXIMATE COVERAGE

- 55–60sft per 20kg bag with 1/4" x 1/4" (6 mm x 6 mm) notched 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 one (1) year* if stored off the ground in a dry area.

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

LIMITATIONS

- Not for use directly over particle board, luan, Masonite® or hardwood floors.
- 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

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.

CAUTIONS

Consult MSDS for more safety information.

- Some marbles and other stone have low flexural strength and may not be suitable for installation over wood floors.
- During cold weather, protect finished work from traffic until fully cured.
- 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.
- Wait 14 days after the final grouting period before filing water features with water at 70°F (21°C)
- DO NOT take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- For white and light-colored marbles use LATICRETE 300 EpoxyAdmix.
- Keep out of reach of children.



APPLICABLE STANDARD

ANSI A118.4, ANSI 118.11

PHYSICAL PROPERTIES

Test	Test Method	Results	Specification
28 day Cure Porcelain Tile Shear Strength	ANSI A118.4 5.2.4	> 500 psi (3.4 Mpa)	>200 psi (1.38 Mpa)
Shear Bond Porcelain Tile Water Immersion	ANSI A118.4 5.2.3	300 psi (2.1 Mpa)	>150 psi (1.0 Mpa)
28 day Cure Quarry Tile to Plywood Shear Bond	ANSI A118.11 4.1.2	265 psi (1.83 MPa)	>150 psi (1.0 Mpa)

WORKING PROPERTIES

Open Time	40 minutes
Pot Life	2 hours
Time to Heavy Traffic	24 hours
Wet Density	103 lbs/ft ³ (1653 kg/m ³)

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 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. Concrete slabs must be plumb and true to within 1/4" (6 mm) in 10 ft (3 m).

Note: LATICRETE 254 Platinum does not require a minimum cure time for concrete slabs. 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

Place clean, potable water into a clean pail. Add LATICRETE 254 Platinum. Use approximately 5-5.5 litres of water for 20kg of powder. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow mortar to slake for 5–10 minutes. Remix with out adding any more water or powder. During use, stir occasionally to keep mix fluffy. DO NOT temper with water.

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 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 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.

GROUTING

Grout the installation after a minimum of 24 hours curing time at 70°F (21°C). Grout with LATICRETE 500 Sanded Grout or LATICRETE 600 Unsanded Grout mixed with LATICRETE 1776 Grout Admix Plus.

For maximum stain resistance use LATICRETE SP100 Stainfree Epoxy Grout for Floor N' Wall.



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 MYK LATICRETE Distributor in your area.

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.

WARRANTY

MYK LATICRETE India Pvt Ltd warrants that LATICRETE 254 Platinum Thin-set Adhesive 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 the terms and conditions stated in LATICRETE Product Warranty

TECHNICAL SERVICES

Technical assistance

Information is available by calling the LATICRETE Technical Service at: Telephone: +91-40-30413100

Fax: +91-40-23378784

e-mail: contact@myklaticrete.com

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