For the Builders of a Better World™

254 PLATINUM™

The ultimate one-step, polymer foritifed, thin-set mortar for interior and exterior installation of ceramic tile, porcelain tile, thin porcelain tile, stone, quarry tile, pavers and brick. 254 Platinum, designed to just mix with water has a long open time with unsurpassed adhesion and workability. 254 Platinum is a LATICRETE approved substitute for 211 Powder mixed with 4237 Latex Additive.

FEATURES/BENEFITS

- Ideal for thin porcelain tile and thin porcelain tile panels
- Exceeds ANSI A118.4, A118.11 and A118.15
- Ultimate adhesion for porcelain and glass tiles
- Incredible bond to exterior glue plywood and concrete*
- Superior for exterior and submerged application
- High shear bond strength
- Smooth creamy formula
- ASTM C627 Extra Heavy (TCNA)

SUITABLE SUBSTRATES

- Exterior Glue Plywood*
- Properly Prepared Vinyl Tile*
- Concrete/Masonry
- Concrete Block
- Cement Plaster
- Non-water Soluble Cut-back Adhesive**
- Cement Mortar Beds
- Cement Terrazzo
- Cement Backer Boards**
- Gypsum Wallboard*
- Plastic Laminate*
- Existing Ceramic Tile and Stone

*Interior use only

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

MANUFACTURER

LATICRETE (Malaysia) Sdn Bhd
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Taman Desa,
58100 Kuala Lumpur, Malaysia
Tel: +603 7989 9188 Fax: +603 7972 0331
Internet: https://ma.laticrete.com

USES

Excellent for exterior and underwater applications as well as providing superior bond to exterior glue plywood (interior only) and concrete. The ultimate thin-set for porcelain, thin porcelain and glass tiles

PACKAGING / COLOUR

25kg; 56 and 80 bags per pallet
Grey and White

This product has been certified green under UL GREENGUARD

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Approximate Coverage
25 kg of 254 Platinum mixed with clean water will yield a coverage of 6.5 – 7.5m^2 with 6mm x 6mm square notch trowel

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, at temperatures > 0°C and < 40°C
* 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
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not designed as replacements for waterproof membranes. When a waterproof barrier is required, use a LATICRETE waterproof 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

- 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 21°C
- DO NOT take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty area
- For white and light-coloured marbles use 254 Platinum (White). For green marble, resin backed tile and stone and other moisture sensitive marbles and agglomerates, use LATAPOXY® 300 Adhesive (refer to Data Sheet 663.0)
- Keep out of reach of children

TECHNICAL DATA

Applicable Standards
When tested in accordance to ISO 13007. 1&2.
254 Platinum is classified as C2TES2P1

Performance Properties

Test	Test Method	Specification	Results
Tensile Adhesion Strength (28 Hours)	ISO 13007-2:2013	≥1.0N/mm^2	>2.62N/mm^2
Tensile Adhesion after Water Immersion (28 days)	ISO 13007-2:2013	≥1.0N/mm^2	>1.24N/mm^2
Tensile Adhesion after Heat Ageing (28 days)	ISO 13007-2:2013	≥1.0N/mm^2	>2.59N/mm^2
Open Time (30 mins)	ISO 13007-2:2013	≥0.5N/mm^2	>0.72N/mm^2
Transverse Deformation	ISO 13007-2:2013	≥5.0mm	≥ 6.0mm
Slip Resistance	ISO 13007-2:2013	≤0.5mm	≤ 0.15mm
Shear Bond Strength	ISO 13007-2:2013	≥0.5N/mm^2	> 2.85N/mm^2
Shear Bond Strength after Heat Ageing	ISO 13007-2:2013	≥0.5N/mm^2	> 3.3N/mm^2
Shear Bond Strength after Water Immersion	ISO 13007-2:2013	≥0.5N/mm^2	> 1.6N/mm^2
Exterior Glue Plywood Adhesion	ISO 13007-2:2013	≥0.5N/mm^2	≥0.80N/mm^2

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Working Properties
(254 Platinum + Water)

Open Time (25°C)	30 Minutes
Pot Life (25°C)	2 Hours
Time to Light 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

VOC/LEED Product Information
This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment

2542-420

Total VOC content in unused form is 0.00g/L

INSTALLATION

Surface Preparation
All surfaces should be between 40°C and 45°C and structurally sound, clean and free of all dirt, oil, grease, loose peeling paints, 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 of. Installation may be made on a damp surface. New concrete slabs shall be damp cured and 28 days old before application
* Note: Latex Portland Cement Mortars do not require a minimum cure time for concrete slabs. All slabs must be plumb and true to within 6mm in 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 "Expansion Joints". Do not cover expansion joints with mortar. Glass Mesh Mortar Unit: Follow TCA Installation detail W244

Mixing
Place clean, potable water into a clean pail. Add 254 Platinum powder. Use approximately 6.5ℓ - 7.0ℓ of water for 25kg of powder. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow mortar to slake for 5 – 10 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel

Note:
* Please do not mix other aggregates such as cement or sand etc to 254 Platinum
* Actual mixing ratio & field performance will depend on application methods,
site condition and temperature

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 > 300mm x 300mm to provide full bedding and firm support

Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to imbed 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.

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

AVAILABILITY AND COST

Availability

LATICRETE materials are available worldwide
For distributor information, call:
Telephone: +603 7989 9188
Fax: +603 7972 0331
For online distributor information, visit LATICRETE at https://ma.laticrete.com

Cost
Contact a LATICRETE distributor in your area

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WARRANTY

LATICRETE (Malaysia) Sdn Bhd warrants that 254 Platinum 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 subjected to terms and conditions stated

MAINTENANCE

LATICRETE grouts require routine cleaning with a neutral pH detergent and water. All stone and tiles should be maintained and sealed with STONETECH® products as appropriate for the specific tile / stone and installation situation
All other LATICRETE materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers

TECHNICAL SERVICE/CONTACT

Technical Assistance
Information is available by calling:

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Technical and safety literature
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