



Globally Proven  
Construction Solutions

# 254 Platinum

The ultimate one-step, polymer fortified, 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 ANSI A118.15.
- Conforms to ISO 13007-1 with a classification of C2TES1P1.
- Ultimate adhesion for porcelain and glass tile.
- Incredible bond to exterior glue plywood and concrete\*.
- Superior for exterior and submerged applications.
- High shear bond strength.
- Smooth creamy formula.
- ASTM C627 Extra Heavy (TCNA).

## MANUFACTURED/ DISTRIBUTED BY

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## 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.

## STANDARDS/CERTIFICATIONS

- ANSI A118.15
- BS ISO 13007-2



This product has been certified green under the UL GREENGUARD Certification Program.

### Suitable Substrates

- Exterior Glue Plywood\*
- Properly Prepared Vinyl Tile\*
- Concrete/Masonry
- Concrete Block
- Cement Plaster
- Cement Mortar Beds
- Non-water-soluble Cut-back Adhesive\*\*
- 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.

### Packaging

25kg per bag

### Color

Grey and White

### Coverage

25kg of 254 Platinum mixed with clean water will yield a coverage of 7.5m<sup>2</sup> using a 6mm x 6mm square notch trowel.

### Shelf Life

Factory sealed container of this product is 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.
- Not for use directly over particle board, Luan, Masonite, or hardwood floors.
- Adhesive/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 (except

where local building codes specify more stringent deflection requirements).

### 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 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 254 Platinum WHITE. For green marble, resin backed tile and stone and other moisture sensitive marbles and agglomerates, use LATAPOXY 300 Adhesive.
- Keep out of reach of children.

### TECHNICAL DATA

#### Performance Properties

254 Platinum mixed with clean water.

Test	Test Method	Results
Pull Off Test	BS ISO 13007-2	2.62N/mm <sup>2</sup>
Pull Off Test After Water Immersion	BS ISO 13007-2	1.24N/mm <sup>2</sup>
Pull Off Test After Heat Aging	BS ISO 13007-2	2.59N/mm <sup>2</sup>
Open Time 30min	BS ISO 13007-2	0.72N/mm <sup>2</sup>
Transverse Deformation	BS ISO 13007-2	>3.0mm
Slip Resistance	BS ISO 13007-2	<0.5mm
Shear Bond Strength	ANSI A118.15	2.85N/mm <sup>2</sup>
Shear Bond Strength After Heat Aging	ANSI A118.15	3.3N/mm <sup>2</sup>
Shear Bond Strength After Water Immersion	ANSI A118.15	1.6N/mm <sup>2</sup>

#### Working Properties

254 Platinum mixed with clean water at 21°C.

Open Time	30 minutes
Pot Life	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.

### 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 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 6mm in 3m.

Note: 254 Platinum does not require a minimum curing 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:** 15mm thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 400mm o.c. maximum; fasten plywood 150mm o.c. along sheet ends and 200mm o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3mm between sheet ends and 6mm between sheet edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

**UNDERLAYMENT:** 15mmthick exterior glue plywood fastened 150mm o.c. along sheet ends and 200mm o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3mm to 6mm between sheets and 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 Bonding Ceramic Tile, Stone, or Brick over Wood Floors for complete details.

#### Mixing

Place clean, potable water into a clean pail. Use approximately 6.0ℓ of water for 25kg of powder. Pour 254 Platinum into the pail of potable water. Mix using a low-speed electric mixer. Adjust quantity of liquid and powder to obtain uniform mix and sticky texture. Allow the mortar to slake for 3-5 minutes.

#### Application

Dampen prepared surfaces. Apply the adhesive mortar onto the substrate with the flat side of the trowel, pressing firmly to work into surface.

**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**

>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 embed tile and adjust level. Check mortar for complete coverage by periodically removing a tile and inspection bedding mortar transfer onto back of tile. If mortar is skinned over (not sticky), remove, and replace with fresh mortar.

#### Grouting

Grout installation after a minimum of 24 hours curing at 21°

C. Grout with SPECTRALOCK® PRO Premium Grout, SPECTRALOCK PRO Grout, PERMACOLOR Select or PERMACOLOR Grout.

#### AVAILABILITY AND COST

##### Availability

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

Telephone: +632 8656 6118

For on-line distributor information, visit LATICRETE at [ph.laticrete.com](http://ph.laticrete.com)

##### Cost

Contact a LATICRETE Distributor in your area.

#### WARRANTY

LATICRETE Philippines, Inc. 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 subject to terms and conditions stated.

#### MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation 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 [ph.laticrete.com](http://ph.laticrete.com)