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 tiles.
- 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)

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

**Colour**
Grey and White

**Coverage**
25kg of 254 Platinum mixed with clean water will yield a coverage of 7.5m² using a 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.
- 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 (see Section 10 FILING SYSTEMS).

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 bedstone 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 (refer to Data Sheet 633.0).
- Keep out of reach of children.

### TECHNICAL DATA

**Performance Properties**
254 Platinum mixed with clean water

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pull Off Test</td>
<td>BS ISO 13007/2</td>
<td>2.62N/mm²</td>
</tr>
<tr>
<td>Pull Off Test After Water Immersion</td>
<td>BS ISO 13007/2</td>
<td>1.24N/mm²</td>
</tr>
<tr>
<td>Pull Off Test After Heat Aging</td>
<td>BS ISO 13007/2</td>
<td>2.59N/mm²</td>
</tr>
<tr>
<td>Open Time 30min</td>
<td>BS ISO 13007/2</td>
<td>0.72N/mm²</td>
</tr>
<tr>
<td>Transverse Deformation</td>
<td>BS ISO 13007/2</td>
<td>&gt;3.0mm</td>
</tr>
<tr>
<td>Slip Resistance</td>
<td>BS ISO 13007/2</td>
<td>&lt;0.5mm</td>
</tr>
<tr>
<td>Shear Bond Strength</td>
<td>ANSI A118.15</td>
<td>2.85N/mm²</td>
</tr>
<tr>
<td>Shear Bond Strength After Heat Aging</td>
<td>ANSI A118.15</td>
<td>3.3N/mm²</td>
</tr>
<tr>
<td>Shear Bond Strength After Water Immersion</td>
<td>ANSI A118.15</td>
<td>1.6N/mm²</td>
</tr>
</tbody>
</table>

**Working Properties**
254 Platinum mixed with clean water at 21°C

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Time</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Pot Life</td>
<td>2 hours</td>
</tr>
<tr>
<td>Time to Light Traffic</td>
<td>24 hours</td>
</tr>
</tbody>
</table>

Specifications subject to change without notice. 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 6 mm in 3 m.

Note: 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 E171 “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 ringshank, 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. Refer to Technical Data Sheet 152 Bonding Ceramic Tile, Stone or Brick over Wood Floors for complete details.

**Grouting**

Grout installation after a minimum of 24 hours curing time 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**: (65) 6515-3028
- **Fax**: (65) 6515-3037
For online distributor information, visit LATICRETE at [se.laticrete.com](http://se.laticrete.com)

**Cost**
Contact a LATICRETE Distributor in your area.

**WARRANTY**
LATICRETE South East Asia Pte Ltd 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**
Nonfinish 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:
- LATICRETE South East Asia Pte Ltd
  - Level2, A3
  - No. 38 Sungai Kadut, Street 2, Singapore 729245
  - **Telephone**: (65) 65153028
  - **Fax**: (65) 65153037
  - **Email**: enquiry@laticrete.com.sg

**Technical and safety literature**
To acquire technical and safety literature, please visit our website at [se.laticrete.com](http://se.laticrete.com)