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
- Equipped with anti-microbial technology.
- 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.
- 25 Year System Warranty**.
- ASTM C627 Extra Heavy (TCNA)25 Year System Warranty**
- Unique color options are now available in all LATICRETE® grout colors when mixed with PERMACOLOR SELECTColor Kits® (254 PLATINUM white only)
- See limitations.
- ** When used as part of the LATICRETE 25 Year System Warranty DS 025.0.
- LATICRETE makes no guarantee on color match to our grout color card and color tools. This process/method can be used to create a colored adhesive mortar to facilitate the installation of translucent, transparent, opaque glass mosaics and other finishes where cleaning thin set mortar out of the joints is a challenge. Do not use colored adhesive mortar as a substitute for grout. Always conduct a test area to validate performance and results.

USES

- Interior and exterior
- Submerged applications
- Provides superior bond to exterior glue plywood (interior only) and concrete
- Ultimate thin-set for porcelain, thin porcelain, and glass tiles

STANDARDS/CERTIFICATIONS

This product has a cradle-to-gate (with options) Product-Specific (Type III) Environmental Product Declaration. The PCR review, life cycle assessment and declaration were independently verified by UL Environment in accordance with ISO 14025, ISO 14040 and ISO 14044.

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.

Applicable Standard
ANSI A118.4, ANSI 118.11, ANSI 118.15, EN 12004, ISO 13007

MANUFACTURER

LATICRETE EUROPE S.R.L.
Via Viazza 1° Tronco nr 19
41043 Formigine (MO) – Italy
Ph. +39 059557680
info@laticreteeurope.com

LATICRETE EUROPE S.r.l. | Via Borghena, 8 – 20122 MILAN - ITALY | +39059557680 | www.laticrete.eu
Datasheets are subject to change without notice. For the latest revision, visit www.laticrete.eu.
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
- Gypsum Plaster
- Plastic Laminate
- Existing Ceramic Tile and Stone
- STRATA_MAT™
- HYDRO BAN® Board

Interior use only.

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

Consult product datasheet (DS-040.0) for specific installation recommendations

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 bed stone installations where L=span length (except where local building codes specify more stringent deflection requirements)

Cautions
- Consult SDS 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 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)
- Some marbles and other stone have low flexural strength and may not be suitable for installation over wood floors.
- Keep out of reach of children.

Packaging
50 lb bag (22.7 kg); 56 bags per pallet

Approximate Coverage

<table>
<thead>
<tr>
<th>Coverage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>60–95 ft²/50 lb bag (7.4–8.6 m²/22.7 kg bag) with 1/4” x 1/4” (6 mm x 6 mm) notched trowel.</td>
<td></td>
</tr>
<tr>
<td>60–70 ft²/50 lb bag (5.6–6.5 m²/22.7 kg bag) with 1/4” x 3/8” (6 mm x 9 mm) notched trowel.</td>
<td></td>
</tr>
<tr>
<td>35–40 ft²/50 lb bag (3.2–3.7 m²/22.7 kg bag) with 1/2” x 1/2” (12 mm x 12 mm) notched trowel.</td>
<td></td>
</tr>
</tbody>
</table>

Coverage will vary depending on trowel notch size, type and size of tile and substrate.

For Installing STRATA_MAT™ or HYDRO BAN® Sheet Membrane (105-115ft²/50 lb bag (9.7-10.6 m²/22.7 kg bag) with 1/4” x 3/16” (6mm x 5mm) notched trowel

Shelf Life
Advanced plastic bag provides two (2) year shelf life. (non-rapid versions only)

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

### Physical Properties

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>ISO 13007-1 C2 Specification</th>
<th>Results</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 day Cure Porcelain Tile Shear Strength</td>
<td>ANSI A118.15 7.2.5</td>
<td>475-575 psi (3.3-4.0 MPa)</td>
<td>&gt;400 psi (2.76 MPa)</td>
<td></td>
</tr>
<tr>
<td>Shear Bond Porcelain Tile Water Immersion</td>
<td>ANSI A118.15 7.2.4</td>
<td>250-300 psi (1.7-2.4 MPa)</td>
<td>&gt;200 psi (1.38 MPa)</td>
<td></td>
</tr>
<tr>
<td>28 day Heat Aging Tile Shear Strength</td>
<td>ANSI A118.15 7.2.7</td>
<td>600-700 psi (4.1-4.8 MPa)</td>
<td>&gt;400 psi (2.76 MPa)</td>
<td></td>
</tr>
<tr>
<td>28 day Cure Quarry Tile to Porcelain Tile</td>
<td>ANSI A118.11 4.1.2</td>
<td>250-300 psi (1.7-2.1 MPa)</td>
<td>&gt;150 psi (1.0 MPa)</td>
<td></td>
</tr>
</tbody>
</table>

### 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 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: 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;

---

### Working Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Time</td>
<td>40 minutes</td>
</tr>
<tr>
<td>Pot Life</td>
<td>2 hours</td>
</tr>
<tr>
<td>Time to Heavy Traffic</td>
<td>24 hours</td>
</tr>
<tr>
<td>Wet Density</td>
<td>13.8 lb/gal. (1.65 g/cm³)</td>
</tr>
</tbody>
</table>

* 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.
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 4.6 - 4.8 qts (4.4 - 4.5 L) of water for 50 lbs (22.7 kg) of powder. When using to install Large Thin Porcelain Tile use up to 5 qts (4.7 L) of water for 50 lbs (22.7 kg) of powder. Add 254 PLATINUM. 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.

Mixing with PERMACOLOR SELECT COLOR KITS (254 PLATINUM white only)
Requires 2 PERMACOLOR SELECT COLOR KITS. (Each Color Kit contains 2 individual color packets, use all 4 color packets) Place water in a clean mixing container. Remove color packets from the cardboard container as well as the protective plastic sleeve. The internal bag is a water dispersible packet – when using the 50 lbs. (22.7 kg) bag of 254 PLATINUM, drop all color packs directly in to water in clean mixing container. Mix with a drill mixer until pigment is dispersed evenly in container and the dispersible packet is no longer visible. Add 254 PLATINUM and mix as directed above. Please note that additional water may be necessary when using PERMACOLOR SELECT COLOR KITS.

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 installation after a minimum of 24 hours curing time at 70°F (21°C). Grout with SPECTRALOCK® PRO PREMIUM GROUT, SPECTRALOCK PRO GROUT, PERMACOLOR SELECTNS OR PERMACOLOR GROUT

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, Call:
Toll Free: 1.800.243.4788, ext. 235
Telephone: +1.203.393.0010
For on-line Distributor Information, visit LATICRETE at www.laticrete.com.

Cost
Contact a LATICRETE Distributor in your area.

WARRANTY
See 10. FILING SYSTEM.
A component of:
DS 230.13: LATICRETE Product Warranty
DS 230.05: LATICRETE 5 Year System Warranty (United States and Canada)
DS 230.15: LATICRETE 15 Year System Warranty for Steel or Wood Framed Exterior Facades (United States and Canada)
DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)
DS 230.99: LATICRETE Lifetime System Warranty (United States and Canada)
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
Technical Assistance
Information is available by calling the LATICRETE Technical Service Hotline:
	Toll Free: 1.800.243.4788, ext. 235
	Telephone: +1.203.393.0010, ext. 235
	Fax: +1.203.393.1948

Technical and Safety Literature
To acquire technical and safety literature, please visit our website at www.laticrete.com.