254 PLATINUM™ Plus

DS-65329-1026

Globally Proven
Construction Solutions



1. PRODUCT NAME
254 PLATINUM™ Plus

2. MANUFACTURER
LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA
Telephone: +1.203.393.0010, ext. 1235
Toll Free: 1.800.243.4788, ext. 1235
Fax: +1.203.393.1684
Website: laticrete.com

3. PRODUCT DESCRIPTION
254 PLATINUM(TM) Plus is the ultimate, high-performance lightweight polymer fortified, thin-set adhesive mortar ideal for interior and exterior installation of ceramic tile, porcelain tile, stone, quarry tile, pavers and brick. 254 PLATINUM Plus is offered in a 25 lb bag providing the same coverage as a 50 lb bag of traditional adhesive mortar. Featuring unsurpassed bond strength, 254 PLATINUM Plus exceeds ANSI A118.15, the highest performance standard for a cementitious adhesive mortar. With a 60-minute open time, superior transfer for maximum coverage, easy to spread creamy consistency and a lightweight formula for easier handling, 254 PLATINUM Plus is the ideal thin-set adhesive mortar for most every installation including submerged applications. Offering exceptional wetting out characteristics, superior transfer and extended open time, 254 PLATINUM Plus is the optimal solution for installing Gauged Porcelain Tile (GPT) and Gauged Porcelain Tile Panels/Slabs (GPTP). 254 PLATINUM Plus is formulated without sand and contains no respirable crystalline silica levels that exceed the OSHA action level*. 254 PLATINUM Plus is a functional equivalent to 254 Platinum multipurpose thin-set mortar.

*OSHA action level set forth in OSHA's Respirable Crystalline Silica (RCS) standard for construction, 29 CFR 1926.1153, as certified by an independent laboratory to be below the OSHA action level for respirable crystalline silica - see www.laticrete.com/silica

Uses
- The ultimate thin-set adhesive for installing ceramic, porcelain, glass tile and Gauged Porcelain Tile Panels/Slabs. Ideal for interior, exterior and submerged applications.

Advantages

- Lightweight- 25 lb (11.3 kg) bag has coverage of 50 lb (22.7 kg) traditional mortar.
- Exceeds ANSI A118.4, A118.11 and ANSI A118.15.
- Contains no respirable silica sand that exceed the OSHA action level.
- ASTM C627 Extra Heavy (TCNA)
- Conforms to ISO 13007-1 with a classification of C2ES1P1.
- LATICRETE HYDROMATIC CURE CHEMISTRY™
- 60 minute open time.
- 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.
- Optimal performance for Gauged Porcelain Panels/Slabs.
- Equipped with antimicrobial technology to fight the growth of stain-causing mold and mildew in the substrate.
- 25 Year System Warranty**.
- Unique color options are now available in all LATICRETE® grout colors when mixed with PERMACOLOR® Select Color Kits¥ (254 PLATINUM Plus white only)
- Smooth creamy, lightweight formula.* 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.

Suitable Substrates
- Exterior Glue Plywood (Interior Only)
- Properly Prepared Vinyl Or Other Resilient Tile
- Concrete Masonry
- Concrete Block
- Cement Mortar Bed
- Non-Water Soluble Cut-Back Adhesive
- Non-Water Soluble Cut-Back Adhesive
- Cement Terrazzo
- Cement Backer Board
- Gypsum Wallboard
- Plastic Laminate
- Existing Ceramic Tile and Stone
- STRATA_MAT

Packaging
25 lb bag (11.3 kg); 56 bags per pallet

Color: Grey and White

Approximate Coverage

80–95 ft² /25 lb bag (7.4–8.8 m²/11.3 kg bag) with 1/4" x 1/4" (6 mm x 6 mm) notched trowel.
60–70 ft²/ 25 lb bag (5.6–6.5 m²/11.3 kg bag) with 1/4" x 3/8" (6 mm x 9 mm) notched trowel.
35–40 ft²/ 25 lb bag (3.2–3.7 m²/11.3 kg bag) with 1/2" x 1/2" (12 mm x 12 mm) notched trowel.

For Installing STRATA_MAT™** or HYDRO BAN® Sheet Membrane (105-115ft² / 25 lb bag (9.7-10.6 m²/ 11.3 kg bag) with ¼ “ x 3/16” (6mm x 5mm) notched trowel

Shelf Life
Two (2) year shelf life. ***High humidity will reduce the shelf life of bagged product.

Limitations
- For exterior 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 safety information.
- Some marbles and other stone have low flexural strength and may not be suitable for installation over wood floors.
- Protect finished work from traffic until fully cured.
- Wait 14 days after the final grouting period before filing water features with water at 70°F (21°C).
- DO NOT take internally.
- For white and light–colored marbles use white 254 PLATINUM Plus . 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.

4. TECHNICAL DATA

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.

Total VOC Content of product in unused form is 0.00 g/L.

Applicable Standard
- ANSI A118.4
- ANSI A118.11
- ANSI A118.15
- EN 12004
- ISO 13007
- This product currently has a Product Specific (Type III) Environmental Product Declaration (EPD). The PCR review, life cycle assessment and declaration were independently verified by UL Environment in accordance with ISO 14025, ISO 14040 and ISO 14044.

Physical Properties

Test	Test Method	Results	Specification
28 day Cure Porcelain Tile Shear Strength	ANSI A118.15 7.2.5	475–575 psi (3.3–4.0 MPa)	>400 psi (2.76 MPa)
Shear Bond Porcelain Tile Water Immersion	ANSI A118.15 7.2.4	250-350 psi (1.7-2.4 MPa)	>200 psi (1.38 MPa)
28 day Heat Aging Tile Shear Strength	ANSI A118.15 7.2.7	600-700 psi (4.1-4.8 MPa)	>400 psi (2.76 MPa)
28 day Cure Quarry Tile to Plywood Shear Bond	ANSI A118.11 4.1.2	250-300 psi (1.7-2.1 MPa)	>150 psi (1.0 MPa)

Test	Test Method	ISO 13007-1 C2 Specification	Results
28 Day Cure Tensile Adhesive Strength	ISO 13007-2 4.4.2	1 MPa (145 psi)	2.0 – 2.5 MPa (290-362 psi)
7 Day Cure 21 Day Water Immersion Tensile Adhesive Strength	ISO 13007-2 4.4.3	1 MPa (145 psi)	1.3-1.6 MPa (174-232 psi)
14 Day Cure 14 Day Heat Age Tensile Adhesive Strength	ISO 13007-2 4.4.4	1 MPa (145 psi)	2.4-3.0 MPa (345-438 psi)
7 Day Cure 21 Day Water Immersion 25 Freeze/Thaw Cycle Tensile Adhesive Strength	ISO 13007-2 4.4.5	1 MPa 145 psi)	1.5-2.4 MPa (217-348 psi)
Transverse Deformation	ISO 13007-2 4.5	Greater than or equal to 2.5 mm (0.1 in.) and less than 5 mm (0.2 in.)	4.0-4.5 mm (0.15-0.17 in.)

254 PLATINUM Plus is ISO 13007-1 C2ES1P1

Working Properties

Open Time	60 minutes
Pot Life	2-4 hours
Time to Heavy 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.

5. 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 Plus *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. Use approximately 4.6 - 4.8 qts (4.4 - 4.5 L) of water for 25 lbs (11.3 kg) of powder. (To mix smaller quantities use 2.9 parts powder to 1 part water.) When using to install Gauged Porcelain Tile Panels/Slabs use up to 5 qts (4.7 L) of water for 25 lbs (11.3 kg) of powder. Add 254 PLATINUM Plus. Mix 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 Plus **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 25 lbs. (11.3 kg) bag of 254 PLATINUM Plus, 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 Plus 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 and rubber mallet and/or slide the tile back and forth 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 Select^^^ or PERMACOLOR Grout^^^

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

6. AVAILABILITY AND COST

Availability
LATICRETE materials are available worldwide.

For Distributor Information, Call:
Toll Free: 1.800.243.4788
Telephone: +1.203.393.0010
For on-line distributor information, visit LATICRETE at **laticrete.com**

Cost
Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:
- 25 Year System Warranty (US) (English)
- 10 Year System Warranty (US) (English)
- 5 Year System Warranty (US) (English)
- Lifetime System Warranty (US) (English)
- 1 Year Product Warranty (US) (English)

8. 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.

9. TECHNICAL SERVICES

Technical Assistance
Information is available by calling the LATICRETE Technical Service Hotline:
Toll Free: 1.800.243.4788, ext. 1235
Telephone: +1.203.393.0010, ext. 1235
Fax: +1.203.393.1948

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

10. FILING SYSTEM

Additional product information is available on our website at laticrete.com. The following is a list of related documents:
- DS 230.13: LATICRETE Product Warranty
- DS 230.15: LATICRETE 15 Year System Warranty – For Steel or Wood Framed Exterior Facades
- DS 025.0: LATICRETE 25 Year System Warranty
- DS 230.99: LATICRETE Lifetime System Warranty
- DS 250.0: PERMACOLOR® Grout^^^
- DS 260.0: STRATA_MAT™**
- DS 281.0: PERMACOLOR Select^^^
- DS 410.0: HYDRO BAN® Sheet Membrane
- DS 633.0: LATAPOXY® 300 Adhesive
- DS 663.0: HYDRO BAN
- DS 681.0: SPECTRALOCK® PRO Premium Grout†

- DS 685.0: SPECTRALOCK PRO Grout†
- TDS 170: Installing Gauged Porcelain Tile Panels/Slabs
- TDS 152: Bonding Ceramic Tile, Stone or Brick over Wood Floors

LATICRETE International, Inc.
One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • www.laticrete.com
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