



254 Platinum

The ultimate one-step, polymer fortified, thin-set adhesive 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.



Contractor: The Orchid Group
Artist: Valmai Pollard, "Wild Flowers"
Location: Shield St, Cairns, QLD



FEATURES/BENEFITS

- Ideal for thin porcelain tile, gauged porcelain tile panels (GTP).
- Suitable for natural stones, porcelain and ceramic tiles, quarry tile, pavers, and brick.
- Tile over existing ceramic, porcelain & stone surface*.
- Equipped with anti-microbial technology.
- 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.
- Also available in Rapid Grade

*See limitations, Contact our technical service for more information.

MANUFACTURER

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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
- External cladding of large format tile / stone

STANDARDS

Applicable Standards

- Exceeds ANSI A118.4, A118.11 and ANSI A118.15
- Conforms to EN 12004, ISO 13007 with a classification of C2TE S1.

GREENGUARD CERTIFIED



DCLD CERTIFIED



Please see the technical data

Packaging: 20 Kg bag, Pallet: 72 bags per pallet

Color: Grey and White

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year if stored off the ground on pallet in warehouse condition at 0 - 40°C, below 65% relative humidity. High humidity will reduce the shelf life of bagged products.

Suitable Substrates

- Concrete/Masonry
- Existing Ceramic Tile and Stone
- Concrete Block
- Cement Plaster
- Cement Beds
- Non-Water-Soluble Cut-Back Adhesive
- Cement Terrazzo
- Cement Backer Boards[^] (Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use)
- Gypsum Wallboard (Interior use only, non-wet areas)
- Gypsum Plaster^{*}
- Plastic Laminate[^]
- STRATA_MAT™
- HYDRO BAN® Board (Consult Hydro Ban Board datasheet (for specific installation recommendations)
- Exterior Glue Plywood (Interior only) [^]
- Properly Prepared Vinyl Tile (Interior only) [^]

[^] Recommended to consult LATICRETE MEA technical dept before the installation.

Coverage (Approximate)

- 6.0–7.25 m²/ 20 kg bag with 6mm x 6mm notched trowel.
- 5.5 - 6.75 m²/ 20 kg bag with 6mm x 9 mm notched trowel.
- 3.0 - 3.5 m²/ 20 kg bag with 12 mm x 12 mm notched trowel.

NOTE: Above coverage is intended as a guide, it may vary depending upon application technique, substrate profile/flatness, trowel angle, trowel wear and wastage factor. Actual coverage shall be determined by mockup area based on site conditions.

For Installing STRATA_MAT™ or HYDRO BAN® Sheet Membrane approximately 8.5 - 9.3m² / 20 kg bag with 6mm x 6mm notched trowel

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 or 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 SDS for more safety information.
- Some marbles and other stones 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 it internally. 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)
- For the installation and fixing of façade tiles, adhere to the guidelines specified in BS 5385-1:2018 and/or DIN 18 515-1 'External Wall Claddings' standards.
- Keep out of reach of children.

TECHNICAL DATA

Certification/ Approvals

GREENGUARD:

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.

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.

DCLD: This product has been certified for Low Emitting Materials by Dubai Central Laboratory Department (DCLD) of

Dubai Municipality. No.CL20020733: 2017 Al Sa'fat Dubai Green Building Evaluation System.

Physical Properties

	Test Method	Results	Specification
28-day Cure Porcelain Tile Shear Strength	ANSI A118.15 7.2.5	406–508 psi (2.8–3.5 MPa)	>400 psi (2.76 MPa)
Shear Bond Porcelain Tile Water Immersion	ANSI A118.15 7.2.4	203–363 psi (1.4–2.5 MPa)	>200 psi (1.38 MPa)
28-day Heat Aging Tile Shear Strength	ANSI A118.15 7.2.7	406–508 psi (2.8–3.5 MPa)	>400 psi (2.76 MPa)
28-day Cure Quarry Tile to Plywood Shear Bond	ANSI A118.11 4.1.2	174– 290 psi (1.2 – 2.0 MPa)	>150 psi (1.0 MPa)

Test (Curing Parameter)	Test Method	ISO 13007-1 C2 Specification	Results
Tensile Adhesive Strength (28 Day Cure)	ISO 13007-2 4.4.2	1 MPa (145 psi)	1.1 – 2.6 MPa (159 - 377 psi)
Tensile Adhesive Strength (7 Day Cure 21 Day Water Immersion)	ISO 13007-2 4.4.3	1 MPa (145 psi)	1.2 – 2.0 MPa (174 - 290 psi)
Tensile Adhesive Strength (14 Day Cure 14 Day Heat Aging)	ISO 13007-2 4.4.4	1 MPa (145 psi)	1.2 – 2.4 MPa (174 - 348 psi)
Tensile Adhesive Strength (7 Day Cure 21 Day Water Immersion then 25 Freeze/Thaw Cycles)	ISO 13007-2 4.4.5	1 MPa (145 psi)	1.2 – 2.0 MPa (174 - 290 psi)
Open Time After 30 Minutes (Extended open time)	ISO 13007-2 4.1	0.5 MPa (73 psi)	1.0- 2.0 MPa (145 – 290 psi)
Slip (T)	ISO 13007-2 4.2	Less than or equal to 0.5 mm (0.02 inches)	< 0.5 mm (0.02 inches)
Transverse Deformation S1 (normal deformability)	ISO 13007-2 4.5	S1 (> 2.5 mm (0.1") and < 5 mm (0.2"))	2.8 - 3.6 mm (0.11 - 0.14 in.)

Working Properties (23 ± 2°C and 50 ± 5% RH)

Open Time	40 minutes
Pot Life	2 hours
Time to Heavy Traffic	24 hours
Wet Density	1.65 ± 0.1 g/cm ³

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 4°C and 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 damped, and excess water swept off. Installation may be made on a damp surface. Concrete slabs must be plumbed and true to within 6 mm in 3m.

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 adhesive.

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 tiles 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 400mm o.c.maximum; fasten plywood 150 mm o.c. along sheet ends and 200 mm o.c. along intermediate supports with 8d ring-shank, 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.

Mixing

Place clean, potable water into a clean pail. Use approximately 4.0 – 4.2 L of water for 20 kg of powder. Water mix ratio can be adjusted according to surface temperature and type of substrate. When installing Large Thin Porcelain Tile use up to 4.2 L of water for 20 kg of powder. Add 254 Platinum. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow adhesive to slake for 5–10 minutes. Remix without adding any more water or powder. During use, stir occasionally to keep mix fluffy. DO NOT temper with water.

Application

Apply adhesive to the substrate with the flat side of the trowel pressing firmly to work into surface. Comb on additional adhesive with the notched side.

Note: Use proper sized notched trowel to ensure full bedding of the tile. Spread as much adhesive as can be covered with tile in 15–20 minutes. Back butter large tiles >200 mm x 200 mm to provide full bedding and firm support. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to embed tile and adjust level. Check adhesives for complete coverage by periodically removing the tile and inspecting bedding adhesive transfer onto back of tile. If adhesive is skinned over (not sticky), remove and replace with fresh adhesive.

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 NS or PERMACOLOR Grout. ^{^^^}

^{^^^}United States Invention Patent No.: 6,784,229 (and other Patents)

† United States Invention Patent No.: 6,881,768 (and other Patents).

Cleaning

Clean tools and tile work with water while adhesive is fresh.

AVAILABILITY AND COST**Availability**

LATICRETE® materials are available worldwide.

For distributor information,

please contact us by email at: enquiry@laticrete.me or, visit www.laticrete.me

Cost

Contact a LATICRETE® closer distributor to obtain complete information and cost.

WARRANTY

The supplier warrants this product will not deteriorate under normal conditions and use, the warranty validity of one (1) year. The product is subject to the terms and conditions stated in the LATICRETE® Product Warranty. Please consult our technical support for further information.

TECHNICAL SERVICES**Technical assistance**

For information contact us by email at: enquiry@laticrete.me

Technical and safety literature

To obtain technical and safety literature, please visit our website at: www.laticrete.me

Warning:

The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE® products must conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.