



254R Platinum Rapid

The ultimate one-step, polymer fortified, thin-set adhesive for interior and exterior installation of ceramic tile, stone, quarry tile, pavers, and brick. 254R Platinum Rapid is designed to mix with water and provide unsurpassed adhesion and workability.



ADVANTAGES

- Contains antimicrobial protection to inhibit the growth of stain-causing mold and mildew in the substrate.
- Rapid Set Adhesive; can be grouted in 2–4 hours.
- Ultimate adhesion for porcelain tiles.
- Incredible bond to exterior glue plywood and concrete*.
- Excellent shear bond strength.
- Superior adhesion for submerged applications.
- High performing smooth creamy formula.

* See limitations.

USES

- Excellent for exterior and under water applications, with a superior bond to exterior glue plywood and concrete. 254R Platinum Rapid is the ultimate rapid setting adhesive for various tiles and stone.

MANUFACTURER

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STANDARDS / CERTIFICATIONS

- Exceeds ANSI A118.4,
- EN 12004 C2TF Requirements & ANSI A118.11



**DCLD & GREENGUARD
CERTIFIED**

Please see the technical data

Packaging:

20 Kg bag; 72 bags per pallet

Color: Grey and White

Suitable Tiles: Ceramic, porcelain, vitrified tiles, quarry tiles, pavers, natural and agglomerate stones such as granite and marble.

Suitable Substrates

- Exterior glue plywood**
- Properly prepared vinyl**
- Concrete/masonry
- Concrete block
- Cement beds
- Non-water-soluble cut-back adhesive**
- Existing ceramic tile
- Gypsum wallboard**
- Gypsum plaster**
- Plastic laminate**
- Cement terrazzo
- Cement backer boards***

**Interior use only.

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

Approximate Coverage

6 – 7.25 m ² / 20 kg bag with 6 mm x 6 mm notched trowel.
5.5 – 6.75 m ² / 20 kg bag with 6 mm x 9 mm notched trowel.
3 – 3.5 m ² / 20 kg bag with 12 mm x 12 mm notched 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.

NOTE: High humidity will reduce the shelf life of bagged products.

Limitations

- Not for use directly over particle board, luan, Masonite® or hardwood floors.
- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- Wait 14 days after the final grouting period before filing water features with water at 21°C.
- Use LATAPOXY® 300 Adhesive for installing green marble, resin backed, or water sensitive tile, stone and agglomerates.
- 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. Refer to the datasheet for more information.

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.
- Use white adhesive for white or light-colored stone.
- 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.
- DO NOT take internally. Avoid breathing dust. Wear a respirator in dusty areas.
- For green, resin backed and moisture sensitive stones and agglomerates, use LATAPOXY® 300 Adhesive (refer to Data Sheet 300.0).
- Keep out of reach of children.

TECHNICAL DATA**Certification/ Approvals**

GREENGUARD: 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

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 /Test Method	Results	ANSI Specs
Shear Bond, Porcelain Tile, 4 hr A118.4-7.5.1	0.38 - 0.45 MPa	≥0.34 MPa
Shear Bond, Porcelain Tile, 28-day cure ANSI A118.4-7.2.5	1.5 - 2.5 MPa	>1.38 MPa
Shear Bond, Porcelain Tile Water Immersion ANSI A118.4-7.2.4	1.2 - 1.3 MPa	>1.03 MPa
Shear Bond, Porcelain Tile, 7day ANSI A118.4-7.2.3	1.5 - 2.0 MPa	>1.38 MPa

Exceeds requirement as per EN 12004-2

Early tensile adhesion strength - 6hrs	0.5 - 0.8 N/mm ²
Initial tensile adhesion strength - 28 days	1.2 - 2.0 N/mm ²
Tensile adhesion strength (Water immersion)	1.2 - 1.5 N/mm ²
Tensile adhesion strength (Heat ageing)	1.5 - 2.5 N/mm ²

Working Properties

Open Time	20 minutes
Pot Life	30 minutes
Time to Grout	2–4 hours
Time to Heavy Traffic	5 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 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 LATICRETE 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. New concrete slabs must be damp cured and at least 28 days old prior to application. 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 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 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. Add 254 Platinum Rapid powder. Use approximately 4.2 - 4.4 L of water 20 kg of powder. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. 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 adhesive for complete coverage by periodically removing a 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 2- 4 hours curing time at 21°C. see the Recommended LATICRETE Grout chart below:

Grout	Type	Mixing
SPECTRALOCK® Pro Premium Grout†	Epoxy Based	Part A+B+C
PERMACOLOR® Grout^ / PERMACOLOR® Select*	Cementitious	Mix with water
1500 Sanded Grout / 1600 Unsanded Grout	Cementitious	Mix with 1776 Grout Enhancer or with water.

*PERMACOLOR Select selling with Color Packs and 11.3 kg of Grout Base

†United States Invention Patent No.: 6881768 (and other Patents).

^United States Invention Patent No.: 6784229 (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 subject to the terms and conditions stated in the LATICRETE® Product Warranty. Please consult our technical support for further information on the system warranty and extended warranty.

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 method and site conditions.
