



253R Gold Rapid

DS-296.3-0310



1. PRODUCT NAME

LATICRETE® 253R Gold Rapid

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

LATICRETE 253R Gold Rapid is a fast setting, bagged cementitious powder to be mixed only with water to install ceramic tile, porcelain tile and stone using the thin-set method of installation.

Uses

Designed for interior and exterior floor and wall installations of all types of ceramic tiles and stone over concrete, exterior glue plywood and a variety of other substrates.

Advantages

- Rapid setting, ready for grouting in 2 to 4 hours.
- High bond strength.
- Smooth, creamy and easy to install.
- Interior and exterior.
- Exceeds ANSI A118.4 Shear Bond Strength requirements.

Suitable Substrates

- Concrete
- Brick masonry
- Concrete masonry
- Plastic laminate*
- Exterior glue plywood*
- Ceramic tile and stones
- Vinyl or other resilient tile*
- Cement mortar beds
- Gypsum wallboard*
- Cement plaster
- Cement terrazzo

- Non water soluble cut-back adhesive*
- Cement backer board**

* Interior use only.

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

Packaging

25 lb bag (11.3 kg); 104 bags per pallet
50 lb bag (22.7 kg); 56 bags per pallet

Colors

Grey and White

Coverage

Approximately 40–47.5 ft² per 25 lb bag (3.7–4.4 m² per 11.3 kg bag) with 1/4" x 1/4" (6 mm x 6 mm) notched trowel.

Approximately 80–95 ft² per 50 lb bag (7.4–8.8 m² per 22.7 kg bag) with 1/4" x 1/4" (6 mm x 6 mm) notched trowel.

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

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.

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

Limitations

- DO NOT apply directly to particle board, luan, Masonite® or hardwood floors.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not designed as replacements for waterproofing membranes. When a waterproofing barrier is required, use a LATICRETE Waterproofing Membrane (see Section 10 FILING SYSTEMS).
- Not for use in submerged applications. For these applications, use LATICRETE 254 Platinum.
- **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.

Cautions

Consult MSDS for more safety information.

- Some marbles and other natural stone have low flexural strength and may not be suitable for installation over wood floors.
- Use LATAPOXY® 300 Adhesive for installing green marble, resin backed or water sensitive stone, tile and agglomerates.
- 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.
- DO NOT take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.

- Use white mortar for white or light-colored marble or stone.
- Keep out of reach of children.

4. TECHNICAL DATA

Applicable Standard

ANSI A118.4 and A118.11

Performance Properties

Test	Test Method	Results	ANSI Specification
Porcelain Tile Shear Strength	ANSI A118.4-5.2.4	400–450 psi (2.8–3.1 MPa)	>200 psi (1.4 MPa)
Porcelain Tile Shear Strength Water Immersion	ANSI A118.4-5.2.3	150–200 psi (1.03–1.4 MPa)	>150 psi (1.03 MPa)
Quarry Tile to Plywood Shear Strength	ANSI A118.11-4.1.2	150–200 psi (1.03–1.4 MPa)	>150 psi (1.03 MPa)
4 Hour Porcelain Tile Shear Strength	ANSI A118.4-5.5	70–100 psi (0.5–0.7 MPa)	>50 psi (0.3 MPa)

From Report on RLS 2164

Working Properties (70°F [21°C])

Open Time	30 minutes
Pot Life	50 minutes
Time to Grout	2–4 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

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 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 shall be damp cured and 28 days old before application. All slabs must be plumb and true to within 1/4" (6 mm) in 10 ft (3 m). 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. Add LATICRETE 253R Gold Rapid. Use approximately 6 qts (5.7 l) of water for 50 lb (22.7 kg) of powder. Mix 3 qts (2.9 l) of water for each 25 lb (11.3 kg) bag. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. If mortar tightens up, remix for 20 seconds without water to extend pot life. During use, stir occasionally to keep mix fluffy. Do not temper with water.

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 the proper sized notched trowel to ensure full bedding of the tile. Spread as much mortar as can be covered with tile in 15 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 2–4 hours curing time at 70°F (21°C). Grout with LATICRETE SpectraLOCK[†] PRO Grout, LATICRETE PermaColor™ Grout mixed with water or LATICRETE 1500 Sanded Grout or LATICRETE 1600 Unsanded Grout gauged with LATICRETE 1776 Grout Enhancer or with water.

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

Cleaning

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

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® 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 www.laticrete.com.

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty
DS 230.05: LATICRETE 5 Year System Warranty

8. MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY 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 (hours 8:00 AM to 5:30 PM EST):

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.

10. FILING SYSTEM

Additional product information is available on our website at www.laticrete.com. The following is a list of related documents:

- DS 230.13: LATICRETE® Product Warranty
- DS 230.05: LATICRETE 5 Year System Warranty
- DS 236.0: LATICRETE 9235 Waterproofing Membrane
- TDS 152: “Bonding Ceramic Tile, Stone or Brick Over Wood Floors”
- DS 633.0: LATAPOXY® 300 Adhesive
- DS 685.0: LATICRETE SpectraLOCK® PRO Grout
United States Invention Patent No.: 6881768 (and other Patents)
- DS 250.0: LATICRETE PermaColor™ Grout
- DS 663.0: LATICRETE Hydro Ban™

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