



Quick Cure Mortar Bed

DS 100.4

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

Quick Cure Mortar Bed

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

Quick Cure Mortar Bed is a rapid setting, polymer fortified, blend of carefully selected polymers, portland cement and graded aggregates. Quick Cure Mortar Bed does not require the use of latex admix, you only need to add water to produce thick bed mortar. It allows for foot traffic and walkability in as soon as 60 minutes.

Uses

- Interior and exterior applications
- Wet and dry applications
- Bonded and non-bonded thick bed mortar applications
- Conventional thick bed mortar applications
- Concrete repairs

Advantages

- Rapid setting – ready for foot traffic in as soon as 60 minutes
- Polymer fortified – no need for latex additives
- Premixed – no job site blending of powders required
- Can be used in connection with HYDRO BAN® Quick Cure for faster shower system installation.
- Excellent for ramping and pitching down to a feather edge when used in a bonded mortar bed assembly with a slurry bond coat of LATICRETE 254 Platinum or 4237 Latex Additive mixed with 211 Powder.

Suitable Substrates

- Concrete
- Ceramic tile & stone
- Concrete masonry
- Brick masonry
- Exterior glue plywood*
- Cement mortar beds
- Cement backer board**
- Cement plaster
- Cement terrazzo

* For interior only, over cleavage membrane with wire reinforcing min. 2" (50 mm) thick

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

Packaging

60 lb (27.2 kg) bag; 56 bags per pallet

Approximate Coverage

14 ft ² at 1/2" (1.3 m ² at 12 mm)
7 ft ² at 1" (0.7 m ² at 25 mm)
3.5 ft ² at 2" (0.3 m ² at 50 mm)

Shelf Life

Advanced plastic bag provides one (1) year shelf life.

Limitations

- Use LATAPOXY® 300 Adhesive for installing green marble or moisture sensitive stone, agglomerates, and resin backed tile or stone.
- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- 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.

- During cold weather, protect finished work from traffic until fully cured.
- Allow a minimum 14 day cure at 70°F (21°C) after the final grouting period prior to filling water features with water.
- Contains portland cement and silica sand. Causes skin irritation and serious eye damage. Wear protective gloves, protective clothing, and eye protection. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer, respiratory irritation or serious lung problems. Do not breathe dust. Wear a respirator in dusty areas.
- 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.

Applicable Standards

ASTM C270

Physical Properties

28 Day Compressive Strength ASTM C270	3800-4000 psi (26.2–27.6 MPa)
Water Absorption ANSI A118.7.3.4	5%
Shrinkage 7 Day Cure ASTM C-157	0.03%
Flexural Strength ANSI A118.7.3.5	840-950 psi (5.8-6.6 MPa)

Working Properties

Pot Life	30 minutes
Time to Foot Traffic	As soon as 60 minutes
Time to Heavy Traffic	8 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, laitance, paint, concrete sealers or curing compounds. Dry dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. 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.

Application

Mortar Bed

- **Mixing Mortar Bed—Dry Pack Consistency for Floors**
Mix a 60 lb bag (27.2 kg) of Quick Cure Mortar Bed to 0.5–0.8 gal (1.9–3 L) of water. Mix to a stiff, semi-dry consistency. Mix ratio may vary dependent upon weight of finish.
- **Bonded Mortar Bed—Installation**
Before placing mortar, apply a slurry bond coat made from 254 Platinum or 4237 Latex Additive mixed with 211 Powder. While the slurry bond coat is wet, spread the mortar and compact well. If placing tile immediately, apply a slurry bond coat, made from either 254 Platinum or 4237 Latex Additive mixed with 211 Powder to the mortar. While the slurry bond coat is wet and sticky, place the tile and beat in well. Refer to TDS 143 "Slurry Bond Coats – When & What to Use" for more information on slurry bond coats.
- **Unbonded Mortar Bed—Installation**
Before placing mortar, place a cleavage membrane (e.g. 4 mil thick polyethylene sheeting or 15 lb, builder felt) on the substrate. Place mortar over the cleavage membrane (approximately 1/2 the depth of the mortar bed). Next, place 2" x 2" (50 mm x 50 mm), 16 gauge galvanized welded wire mesh over the mortar. Then, place the balance of the mortar bed. The wire mesh should be suspended in the middle of the mortar bed. Spread the mortar and compact well. Minimum mortar bed thickness shall be 2" (50 mm). If placing tile immediately, apply a slurry bond coat, made from either 254 Platinum or 4237 Latex Additive mixed with 211 Powder to the mortar. While the slurry bond coat is wet and sticky, place the tile and beat in well.

Wall Renders

- **Mixing Wall Renders**
Mix a 60 lb bag (27.2 kg) of Quick Cure Mortar Bed to 0.6 – 0.7 gal (2.3 – 2.6 L) of water. Mix to a plastic consistency.
- **Wall Renders—Installation**
No slurry bond coat is required prior to placing wall renders. Apply wall render with a steel trowel pressing mortar into good contact with the substrate. Apply "scratch coat" first – not to exceed 1/2" (12 mm) thickness. Scratch mortar before it hardens. After "scratch coat" hardens, apply the "brown or float coat" working the mortar into good contact with the scratch coat. Do not exceed 5/8" (15 mm) thickness per lift. Scratch all lifts that will receive additional float coats. Float wall with steel trowel and straight edges to form a plumb and true mortar surface. Allow the completed render coats to cure for a minimum of 60 minutes at 70°F (21°C) prior to the installation of tile.

Application

- **Concrete Repair and Resurfacing – Leveling Mortar Consistency**
Mixing Leveling Mortars Mix a 60 lb bag (27.2 kg) of Quick Cure Mortar Bed to 0.8 – 0.9 gal (3 – 3.4 L) of water. Mix to a plastic consistency. Mix ratio may vary dependent upon weight of finish.
- **Concrete Repair and Resurfacing – Installation**
Before placing mortar, apply a slurry bond coat made from 254 Platinum or 4237 Latex Additive mixed with 211 Powder. Apply a slurry bond coat to all reinforcing steel and existing clean, sound and stable concrete surfaces just prior to placing the mortar. While the slurry bond coat is wet and sticky place the topping mortar. Compact the surface of the mortar with a flat trowel and ensure all voids are filled. Avoid over troweling.

▪ Cold Weather Note

The setting of portland cement mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather.

▪ Hot Weather Note

The evaporation of moisture in portland cement mortars is accelerated by hot, dry conditions. Apply mortar to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 90°F (32°C).

NOTE: A slurry bond coat should also be applied to the edges of mortar beds installed from previous work periods.

NOTE: If applying HYDRO BAN® Quick Cure Waterproofing Membrane over Quick Cure Mortar Bed; allow mortar bed to set firm prior to the installation of the membrane to the point where no physical indenting of the mortar bed occurs. This could be as soon as 60 minutes at 70°F (21°C). For best results, in lieu of using a brush or roller on the first application, HYDRO BAN Quick Cure may be applied with a flat steel trowel or rubber float.

NOTE: If applying HYDRO BAN Waterproofing Membrane over Quick Cure Mortar Bed; allow mortar bed to cure 24 hours at 70°F (21°C) prior to the installation of the membrane.

Best results are obtained when mortar bed is slick troweled smooth and compacted so that minimal loose mortar granules exist on the surface. If needed, you can also vacuum or broom off the mortar bed before the first layer of HYDRO BAN or HYDRO BAN Quick Cure.

Cleaning

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

6. AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY® materials are available worldwide.

For Distributor information:

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

A component of:

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 Tile & Stone 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:

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 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 (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

DS 230.1: 4237 Latex Additive

DS 236.0: 9235 Waterproofing Membrane

DS 239.0: 211 Powder

DS 633.0: LATAPOXY 300 Adhesive

DS 663.0: HYDRO BAN

DS 670.4: HYDRO BAN QUICK CURE

DS 677.0: 254 Platinum

TDS 143: Slurry Bond Coats When & What to Use

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