



# 3701 Lite Mortar R

DS-36603-0820

**Globally Proven  
Construction Solutions**



- Light weight - half the weight of conventional mortars
- Excellent for vertical applications such as rendering walls, pools, etc.
- Excellent for overhead applications
- Contains NO respirable silica sand
- Freeze-thaw compliant
- Ease of mixing and application - can be applied up to 3/4" on a vertical surface
- Polymer fortified – no need for latex additives
- Premixed – no job site blending of powders required
- Economical – saves time and money
- For use as a scratch or finish coat in place of Type S or Type N mortar
- Can be used to ramp and pitch areas - bonded mortar bed assembly is possible with a slurry bond coat of LATICRETE 254 Platinum, down to a feather edge

## 1. PRODUCT NAME

3701 Lite Mortar R

## 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](http://laticrete.com)

## 3. PRODUCT DESCRIPTION

3701 Lite Mortar R contains carefully selected polymers, portland cement and light weight aggregates. This Rapid mortar can be used in a large amount of projects, decreasing the wait time significantly. 3701 Lite Mortar R contains no silica sand and does not require the use of latex admix. You will only need to add water to produce thick bed mortar or a vertical repair mortar/screed. 3701 Lite Mortar R weighs half the amount of a conventional thick bed mortar and is easy to mix / apply.

### Uses

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

### Advantages

- Rapid formula - cure time between 1.5 to 2 hours

### Suitable Substrates

- Concrete
- Ceramic Tile Or Stone
- Concrete Masonry
- Brick Masonry
- Cement Mortar Bed
- Cement Plaster
- Cement Terrazzo
- Exterior Glue Plywood (For interior only, minimum 2" (50 mm) over cleavage membrane with wire reinforcing)
- Cement Backer Board (Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use)

### Packaging

30 lb (13.6 kg) bag; 56 bags per pallet  
Part Number: 2060-0030-21-1

### Approximate Coverage

Render/Repair	Mortar Bed	Depth
12 sq. ft. (3.7 m)	10 sq. ft. (3 m)	½" (12mm)
6 sq. ft. (1.8 m)	5 sq. ft. (1.5 m)	1" (25 mm)
4 sq. ft. (1.2 m)	3 sq. ft. (.9 m)	1-½" (38mm)
3 sq. ft. (.9 m)	2 sq. ft. (.6 m)	2" (50 mm)

### Shelf Life

One year shelf life

**Limitations**

- Use LATAPOXY® 300 Adhesive for installing green marble or moisture sensitive stone, agglomerates, and resin backed tile or stone.
- Keep material temperature controlled.
- 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).
- 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 Data Sheets are subject to change without notice. For latest revision, check our website at [www.laticrete.com](http://www.laticrete.com). DS-100.0-1017 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. Causes severe skin burns and eye damage. Wear protective gloves, protective clothing and eye protection. In case of contact, flush thoroughly with water.
- Do not take internally. Do not breathe dust. Wear a respirator in dusty areas.
- Keep out of reach of children

**4. TECHNICAL DATA**



**Physical Properties**

Testing	Results (Render/Repair)
Compressive Strength (PSI) ASTM C109	2 hour = 400 to 500 1 day = 1000 to 1500 7 day = 1500 to 2000 28 day = 2000 to 3000
Flexural Strength (PSI) ASTM C348	7 day = 600 to 800
Tensile Strength (PSI) ASTM C1583	28 day = 150 to 200

Testing	Results (Mortar Bed)
Compressive Strength (PSI) ASTM C109	2 hour = 600 to 900 7 day = 2000 to 3000 28 day = 2500 to 3500
Flexural Strength (PSI) ASTM C348	7 day = 600 to 800
Tensile Strength (PSI) ASTM C1583	28 day = 150 to 200

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.

**Working Properties**

Properties	Time
Initial Set	35 to 45 minutes
Final Set	50 to 70 minutes
Pot Life	25 to 35 minutes
Time to Foot Traffic	90 to 120 minutes
Time to Heavy Traffic	72 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 EJ171 “Movement joints-Vertical & Horizontal”. Do not cover expansion joints with mortar.

## Application

### Mortar Bed

- **Mixing Mortar Bed—Dry Pack Consistency for Floors**

Mix a 30 lb bag (13.6 kg) of 3701 3701 Lite Mortar R with 3.5 to 3.7 qts (3.3 to 3.5 ℓ) of water for 2 to 3 minutes. 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 257 Titanium. While the slurry bond coat is wet, spread the mortar and compact well. If placing tile immediately, apply another slurry bond coat to the surface of the mortar bed (made from either 254 Platinum or 257 Titanium). 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 it well. Minimum mortar bed thickness shall be 2" (50 mm). If placing tile immediately, apply another slurry bond coat to the surface of the mortar bed (made from either 254 Platinum or 257 Titanium). While the slurry bond coat is wet and sticky, place the tile and beat in well.

### Wall Renders

- **Mixing Wall Renders**

Mix a 30 lb bag (13.6 kg) of 3701 Lite Mortar R with 4.9 to 5.1 qts (4.7 to 4.8 ℓ) of water for 2 to 3 minutes. 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.

Application thicknesses over 3/4". Apply “scratch coat” first. 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 3/4" (30 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 24 hours at 70°F (21° C) prior to the installation of tile.

### Concrete Repairs

- **Concrete Repair and Resurfacing – Installation**

Mix a 30 lb bag (13.6 kg) of 3701 Lite Mortar R with 4.9 to 5.1 qts (4.7 to 4.8 ℓ) of water for 2 to 3 minutes. Mix to a plastic consistency.

Before placing mortar, apply a slurry bond coat made from 254 Platinum or 257 Titanium to all reinforcing steel and existing clean, sound and stable concrete surfaces. 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. Cleaning Clean tools and tile work with water while the 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](http://laticrete.com)

### Cost

Contact a LATICRETE Distributor in your area.

## 7. WARRANTY

See 10. FILING SYSTEM:

- DS 230.13: 1 Year Product Warranty
- DS 230.05: 5 Year System Warranty
- DS 230.10: 10 Year System Warranty
- DS 230.99: LATICRETE Lifetime System Warranty (United States and Canada)

## 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](http://laticrete.com).

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LATICRETE International, Inc.

One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • [www.laticrete.com](http://www.laticrete.com)

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