1. PRODUCT NAME
3701 Lite Mortar

2. MANUFACTURER
LATICRETE International, Inc.
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Fax: +1.203.393.1684
Website: laticrete.com

3. PRODUCT DESCRIPTION
3701 Lite Mortar contains carefully selected polymers, portland cement and light weight aggregates. 3701 Lite Mortar 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 weighs half the amount of a conventional thick bed mortar and is easy to mix / apply.

Advantages
- Light weight - half the weight of conventional mortars
- Excellent for vertical and 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

Suitable Substrates
- Concrete
- Ceramic Tile and 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)

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

Approximate Coverage

<table>
<thead>
<tr>
<th>Render/Repair</th>
<th>Mortar Bed</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 ft. (3.7 m)</td>
<td>10 ft. (3 m)</td>
<td>½” (12mm)</td>
</tr>
<tr>
<td>6 ft. (1.8 m)</td>
<td>5 ft. (1.5 m)</td>
<td>1” (25 mm)</td>
</tr>
<tr>
<td>4 ft. (1.2 m)</td>
<td>3 ft. (0.9 m)</td>
<td>1-½” (38mm)</td>
</tr>
<tr>
<td>3 ft. (0.9 m)</td>
<td>2 ft. (0.6 m)</td>
<td>2” (50mm)</td>
</tr>
</tbody>
</table>

Shelf Life
Two (2) year shelf life. ***High humidity will reduce the shelf life of bagged product.
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).
• 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. 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

Testing | Results (Render/Repair)
--- | ---
Compressive Strength (PSI) ASTM C109 | 1 day = 1000 to 1500
3 day = 2000 to 2500
7 day = 2500 to 3000
28 day = 2500 to 3500
Flexural Strength (PSI) ASTM C348 | 7 day = 500 to 700
Tensile Strength (PSI) ASTM C1583 | 28 day = 150 to 200

Testing | Results (Mortar Bed)
--- | ---
Compressive Strength (PSI) ASTM C109 | 1 day = 2000 to 3500
7 day = 3500 to 4500
28 day = 4000 to 5000
Flexural Strength (PSI) ASTM C348 | 7 day = 800 to 1000
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

<table>
<thead>
<tr>
<th>Properties</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Set</td>
<td>4 to 6 hours</td>
</tr>
<tr>
<td>Final Set</td>
<td>8 to 10 hours</td>
</tr>
<tr>
<td>Pot Life</td>
<td>2 hours</td>
</tr>
<tr>
<td>Time to Foot Traffic</td>
<td>16 hours</td>
</tr>
<tr>
<td>Time to Heavy Traffic</td>
<td>72 hours</td>
</tr>
</tbody>
</table>

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 Lite Mortar with 3.8 to 4.0 qts (3.6 to 3.8 ℓ) of water for 2 to 3 minutes. Mix to a stiff, semi-dry consistency. Allow mortar to slake for 5 minutes. Remix without adding any more water or powder for another 2 to 3 minutes. 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 with 5.5 to 5.6 qts (5.2 to 5.3 ℓ) of water. Mix to a plastic consistency, 2 to 3 minutes. Allow mortar to slake for 5 minutes. Remix without adding any more water or powder for another 2 to 3 minutes.

• 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” (19 mm), apply a “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” (19 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 Repair
• Concrete Repair and Resurfacing – Installation
Mix a 30 lb bag (13.6 kg) of 3701 Lite Mortar with 5.5 to 5.6 qts (5.2 to 5.3 ℓ) of water. Mix to a plastic consistency, 2 to 3 minutes. Allow mortar to slake for 5 minutes. Remix without adding any more water or powder for another 2 to 3 minutes.

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

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.