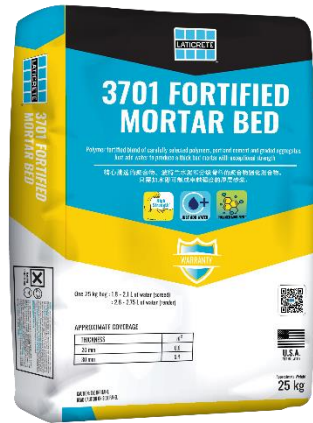




# 3701 Fortified Mortar Bed

3701 Fortified Mortar Bed is a polymer fortified blend of carefully selected polymers, Portland cement and graded aggregates for use in renders and screeds. 3701 Fortified Mortar Bed does not require the use of latex admix, you only need to mix with water to produce mortars with exceptional strength for Extra Heavy Duty installations



## FEATURES/BENEFITS

- Use from feather edge to desired thickness
- Polymer fortified — no need for latex additives
- Premixed; No job site blending of powders required
- Exceeds ASTM C270 requirements
- High strength formula, rated for Extra Heavy Duty installations
- Pumpable for large scale veneer projects
- For use as a scratch or finish coat in place of standard or normal mortars

## MANUFACTURER

LATICRETE (Malaysia) Sdn Bhd  
 #18-08, Faber Tower 2, Jalan Desa Bahagia, Taman Desa,  
 58100 Kuala Lumpur, Malaysia  
 Tel: +603 7989 9188 Fax: +603 7972 0331  
 Internet: <https://ma.laticrete.com>

## SUITABLE SUBSTRATES

Concrete	Brick and Concrete Masonry
Concrete Block	Cement Plaster
Ceramic Tile and Stones	Cement Terrazzo
Cement Mortar Beds	Exterior Glue Plywood <sup>^</sup>
Cement Backer Board <sup>**</sup>	

<sup>^</sup> Interior use only with wire reinforcing

<sup>\*\*</sup> Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use

## USES

For interior and exterior use for preparing conventional thick cement mortar beds, cement plasters and concrete repairs

## PACKAGING

25kg bag; 50 and 80 bags per pallet

### Approximate Coverage

25kg bag of 3701 Fortified Mortar Bed when mixed with 1.8ℓ – 2.1ℓ of potable water will yield approximately 0.6m<sup>2</sup> coverage at 20mm thick

### 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 at temperatures > 0°C and < 40°C

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

### Limitations

- Use LATAPOXY® 300 adhesive for installing green marble or water sensitive natural stone and agglomerates
- Use white adhesive for installing white or light coloured marble or stone
- Not for use over expansion joints or structural movement cracks
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not designed as replacements for waterproof membranes. When a waterproof barrier is required, use a LATICRETE waterproof membrane
- 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/brick installations or L/480 for thin bed stone installations where L=span length. See TDS1011 for more details

### Cautions

- 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
- Efflorescence is a normal condition of Portland cement. Contact LATICRETE for information on reducing the effects of efflorescence
- Keep out of reach of children

## TECHNICAL DATA

### Performance Properties

3701 Fortified Mortar Bed mixed with water

Test	Test Method	Results
Compressive Strength (28 days)	ASTM C270	27.6 - 34.5N/mm <sup>2</sup>
Water Absorption	ANSI A118.7.3.4	5%
Flexural Strength	ANSI A118.7.3.5	7.5 – 8.3N/mm <sup>2</sup>
Shrinkage (7 days)	ASTM C157	0.05%
TCNA Service Rating	ASTM C627	Extra Heavy

### Working Properties

3701 Fortified Mortar Bed mixed with water

Properties	Values
Pot Life (30°C)	2 hours
Time to Light Traffic	16 hours
Time to Heavy Traffic	72 hours
Wet Density (as render mix)	1900kg/m <sup>3</sup>

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 – 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 of 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****Mixing – 3701 Fortified Mortar Bed for Floor**

Mix 25kg of 3701 Fortified Mortar Bed with approximately 1.8ℓ – 2.1ℓ of potable water. Adjust liquid to achieve the desired consistency as site conditions and effects of the slurry bond coat can alter the mix consistency during the laying process. Mix to an easily compactable, semi-dry consistency that holds its shape and presents with a slight sheen to the surface. Mix only what can be used within the pot life as a mortar

**Installation – 3701 Fortified Mortar Bed for Floor**

*Pre-screed before installation* – Immediately before placing fresh mortar, apply and work into the surface a nominal 1-2mm thick slurry bond coat made of 335 Premium Flexible Adhesive or other specified bond coats to the prepared substrate. Whilst the bond coat is still wet and tacky, spread and screed the mortar mix over the bond coat and compact well as the work progresses. Finish with a wood float to the required surface tolerances, falls and levels. Allow to dry for the application of membranes or tile

*Wet-bed installation* – In the case where tiles or pavers are to be beaten into a fresh, plastic semi-dry mortar bed that has been applied over a slurry bond coat as above; screed to the desired levels and falls, and compact. Float the surface flat and tight with a surcharge of mortar (additional mortar to account for the compaction in the beating and bedding process). Then apply a nominally 2mm thick slurry bond coat to the surface of the plastic mortar bed (only to the area that will immediately receive tile or paver) with the flat edge of the trowel. While the slurry bond coat is wet and tacky, place the tile and beat in well to the correct level and alignment

**Application****Mixing – 3701 Fortified Mortar Bed for Wall Renders**

Mix 25kg of 3701 Fortified Mortar Bed with 2.6ℓ – 2.75ℓ of water. Mix to a plastic consistency

**Installation – 3701 Fortified Mortar Bed for Wall Renders**

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 prepared substrate. Apply “scratch coat” first – not to exceed 12mm thickness. Scratch mortar before it hardens. After “scratch coat” hardens, apply the “float coat” working the mortar into good contact with the scratch coat. Do not exceed 15mm 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 21°C prior to the installation of tile

**Application****Concrete Repair and Patching – Mixing**

Mix 25kg of 3701 Fortified Mortar Bed with 1.8ℓ – 2.3ℓ of water. Adjust mix to the desired consistency. Mix should be pliable and able to pack voids without slumping

**Concrete Repair and Patching – Installation**

Immediately before placing fresh mortar, apply and work into the surface a nominal 1-2mm thick slurry bond coat made of 335 Premium Flexible Adhesive or other specified bond coats to the prepared substrate. Whilst the bond coat is still wet and tacky, pack the mortar into the repair taking care to compact the mortar and leave no voids. Some repairs may need to be packed in stages. Scratch and allow to dry between stages. Re-apply slurry bond coat between stages. Consult LATICRETE for information or treating exposed steel in immersed installations

**Cold Weather Note:** The setting of Portland cement adhesives, mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting adhesive use LATICRETE Rapid Setting Thin-Set Adhesives and Additives. Do not set tile when surface temperature is below freezing or when substrate is frozen. For further information, see TDS1002

**Hot Weather Note:** The evaporation of moisture in Portland cement adhesives, mortars and grouts is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 35°C. For further information, see TDS1018

**Cleaning**

Clean tools and tile work with water while mortar is fresh

## AVAILABILITY AND COST

### Availability

LATICRETE materials are available worldwide

For distributor information, call:

Telephone: +603 7989 9188

Fax: +603 7972 0331

For online distributor information, visit LATICRETE at <https://ma.laticrete.com>

### Cost

Contact a LATICRETE distributor in your area

## WARRANTY

LATICRETE (Malaysia) Sdn Bhd warrants that 3701 Fortified Mortar Bed is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subjected to terms and conditions stated

A component of:

LATICRETE 5 Years System Warranty

LATICRETE 10 Years System Warranty

## MAINTENANCE

LATICRETE grouts require routine cleaning with a neutral pH detergent and water. All stone and tiles should be maintained and sealed with STONETECH® products as appropriate for the specific tile / stone and installation situation

All other LATICRETE materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers

## TECHNICAL SERVICE/CONTACT

### Technical Assistance

Information is available by calling:

LATICRETE (Malaysia) Sdn Bhd

#18-08, Faber Tower 2, Jalan Desa Bahagia,

Taman Desa, 58100 Kuala Lumpur,

Malaysia

Telephone: +603 7989 9188

Fax: +603 7972 0331

Email: [enquiry@laticrete.com.my](mailto:enquiry@laticrete.com.my)

### Technical and safety literature

To acquire technical and safety literature, please visit our website at <https://ma.laticrete.com>