



LATICRETE Premium Mortar Bed

Globally Proven
Construction Solutions

DS-263.0-0813



1. PRODUCT NAME

LATICRETE Premium Mortar Bed

2. MANUFACTURER

LATICRETE UK
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United Kingdom
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3. PRODUCT DESCRIPTION

Premium Mortar Bed is a polymer fortified blend of carefully selected polymers, portland cement and graded aggregates. Premium Mortar Bed does not require the use of latex admix, you only need to add water to produce thick bed mortar with exceptional strength.

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

- For use as a scratch or finish coat in place of Type S or Type N mortar
- Polymer fortified – no need for latex additives
- Premixed – no job site blending of powders required
- Economical – saves time and money
- High strength formula
- Pumpable for large scale veneer projects
- Exceeds ASTM C270 compressive strength requirements for masonry veneer installations.

Substrates

- Concrete
- Stone
- Ceramic tile
- 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

20 kg bag; 54 bags per pallet

Approximate Coverage

| |
|------------------------------------|
| 1.10 m ² at 12 mm thick |
| 0.56 m ² at 25 mm thick |
| 0.30 m ² at 50 mm thick |

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >32°F (0°C) and <110°F (43°C).

Limitations

- Mastics, adhesive mortars and pointing mortars for masonry veneer, stone, tile, pavers and thin brick are not replacements for waterproofing membranes or air and water barrier. When a waterproofing membrane or air and water barrier is required, use an Air & Water Barrier (see Section 10 FILING SYSTEMS).
- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- Use LATAPOXY® 300 Adhesive for installing green marble, resin backed on water sensitive tile, stone and agglomerates (refer to DS 633.0 for more information)

Note: Surfaces must be structurally sound, stable and rigid enough to support manufactured masonry veneer, 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 tile/brick installations or L/480 for thin bed stone installations where L=span length . For exterior vertical installations over framed construction, the substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/600 where L=span length (except where local building codes specify more stringent deflection requirements).

Cautions

Consult MSDS for more safety information.

- 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.
- For white and light-colored stones, conduct test area to ensure no shadowing or staining is observed.
- Keep out of reach of children.

4. TECHNICAL DATA

Applicable Standards

ASTM C109, ASTM C157, C270, EN13813 and C627

Physical Properties

| Test Method | Requirement | Results |
|---|------------------------|----------------------------------|
| Water Absorption ANSI A118.7.3.4/ASTM C270 | <10% | 5% |
| 28 Day Compressive Strength ASTM C109 | 2500 psi (17.2 MPa) | 4000–5000 psi (27.6–34.5 MPa) |
| Flexural Strength ANSI A118.7.3.7 | 1000 psi (6.9 MPa) | 1100–1200 psi (7.5–8.3 MPa) |
| Shrinkage 7 Day Cure ASTM C157 | | 0.05% |
| TCNA Service Rating ASTM C627 | | Extra Heavy |

| Test Method | EN13813 Specification | Results |
|--|-----------------------|--------------------------------|
| 28 day cure flexural strength EN 13892-2 | 7 MPa (1015 psi) | 7 – 8.5 MPa (1015-1232 psi) |
| 28 day cure compressive strength EN 13892-2 | 30 MPa (4350 psi) | 30–36 MPa (4350–5220 psi) |

Premium Mortar Bed is an EN13813 C30F7 mortar.

Working Properties

| | |
|-----------------------|----------|
| Pot Life | 2 hours |
| Time to Foot Traffic | 16 hours |
| 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 masonry 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 20 kg of Premium Mortar Bed with 1.9–2.2 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 Hi-Bond Masonry Veneer Mortar While the slurry bond coat is wet, spread the mortar and compact well. If placing stone immediately, apply a slurry bond coat, made from either Hi-Bond Masonry Veneer Mortar. While the slurry bond coat is wet and sticky, place the stone and beat in well.

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 stone immediately, apply a slurry bond coat, made from Hi-Bond Masonry Veneer Mortar. While the slurry bond coat is wet and sticky, place the stone and beat in well.

Wall Renders

Mixing Wall Renders

Mix a 20 kg of Premium Mortar Bed with 2.2 – 2.5 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 layers 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 masonry

As a Pumped Mortar for Renders and Plaster

7 x 20 kg bags of Premium Mortar Bed utilizing liquid plasticizer/pump aid. Confirm with manufacturer of pump aid for compatibility with polymer fortified mortar mixes. Approximate coverage for a mix of 7 x 20 kg bags of mortar will be 3.1 m² at 1" (25 mm) thick. Coverage will vary according to mixing, pumping, placement, job site conditions and rebound. Do not exceed 5/8" (15 mm) thickness per application of pumped render. Scratch up previous layer prior to placing subsequent coats.

Application

Concrete Repair and Resurfacing – Leveling Mortar Consistency
Mixing Leveling Mortars Mix a 20 kg of Premium Mortar Bed with about 2.2 – 2.5 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 Hi-Bond Masonry Veneer Mortar. 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.

Cleaning

Clean tools and masonry with water while the mortar is fresh.

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide.

For on-line Distributor Information, call 0151 486 6101 or visit

LATICRETE UK at

www.laticrete.co.uk

7. MAINTENANCE

LATICRETE and LATAPOXY grouts and pointing mortars 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.

8. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE UK Technical Service Hotline:

Tel: 0151 486 6101

Fax: 0151 448 1982

e-mail: sales@laticrete.co.uk

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at www.laticrete.co.uk

9. DISCLAIMER

The information contained in this document is given in good faith and to the best of our knowledge is true and accurate. This information is subject to change without notice and it is the responsibility of the user to obtain up to date and current information. The use of this product is beyond our control and liability is assumed by the user when used incorrectly and not in accordance with LATICRETE guidelines.

The manufacturer is not responsible for any loss or damage arising from incorrect usage of this product.

The specifier or other party responsible for the project must ensure that the details in this data sheet are appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope of this specification.

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