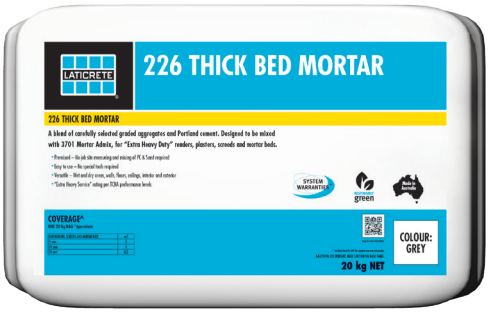
226 Thick Bed Mortar

226 Thick Bed Mortar is a factory prepared blend of carefully selected raw materials, Portland cement and graded aggregates. Designed for use with 3701 Mortar Admix to produce a latex Portland cement mortar that has exceptional strength.

Globally Proven Construction Solutions

Location: King George Square, Brisbane, QLD



FEATURES/BENEFITS

- Premixed – No job site blending of powders required
- Economical – Saves time and money
- Easy to use – No special tools required
- High strength formula
- Can be used from feather-edge to desired thickness when mixed with LATICRETE 3701 Mortar Admix
- Versatile – Wet and dry areas, walls, floors, ceilings, interior and exterior
- "Extrla Heavy Service" rating per TCNA performance levels when mixed with LATICRETE 3701 Mortar Admix (RE: ASTM C627 Robinson Floor Test)

APPROXIMATE COVERAGE

(Based on 20kg bag)

- 1m² at 10mm thick
- 2m² at 5mm thick

USES

For interior and exterior use in place of conventional thick bed mortars, cement plasters and concrete repair mortars including permanently immersed installations.

SUITABLE SUBSTRATES

- Concrete
- Ceramic tile and stones
- Concrete masonry
- Brick masonry
- Exterior glue plywood*
- Cement mortar beds
- Cement backer boards**
- Cement plaster
- Cement terrazzo

* For interior installations only, over cleavage membrane with wire reinforcing

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

Suitable substrates are when mixed with 3701 Mortar Admix.

PACKAGING/COLOUR

- 20 kg bag; 56 bags per pallet
- Grey

MANUFACTURER

LATICRETE Australia Pty Ltd
29 Telford Street
Virginia, QLD 4014 Australia

Telephone: 07 3865 1599
Toll Free: 1800 331 012
Fax: 07 3865 2250
Internet: www.laticrete.com.au

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.

* 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.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproof membrane is required, use a LATICRETE Waterproof Membrane.
- **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/720 for thin bed stone installations where L=span length (except where local building codes specify more stringent deflection requirements).

Cautions

- See SDS 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.
- Keep out of reach of children.

TECHNICAL DATA

VOC Information

Green Building Council of Australia Green Star Office Design. VOC: 2 grams/litre.

Applicable Standards

Conforms to ANSI A-118.4-1999: Latex Portland Cement Mortar (When mixed with 3701 Mortar Admix).

Performance Properties

226 Thick Bed Mortar mixed with 3701 Mortar Admix

Test/Test Method	Result
Water Absorption ANSI A118.6-4.4	<5%
Compressive Strength ANSI A118.4-6.1	33.8 – 34.5 MPa
TCA Service Rating ASTM C-627	Extra Heavy

Working Properties at 21°C & 50% RH

PROPERTY	VALUE
Pot Life	1 hour
Time to Foot Traffic	12 hours
Time to Heavy Traffic	72 hours
Wet Density	2020kg/m^3

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.

INSTALLATIONS

Notes: Latex Portland Cement mortars do not require a minimum cure time for cement slabs. Consider any additional shrinkage movement when installing over green concrete and cement based finishes. Movement joints shall be provided through all bedding and tile work from all dynamic construction or movement joints in the substrate. Follow Australian Standard requirements for Movement Joints in AS3958 or TCNA detail EJ-171 "Movement Joints – Vertical & Horizontal". Do not cover movement joints with adhesive.

When using wet plaster type mixes for wall renders or levelling bed application to horizontal surfaces, do not apply greater than 15 mm per lift after the initial first coat of 12mm. Scratch and allow to dry between lifts or coats.

Where bonded semi-dry mortar beds are greater than 50mm in thickness, install wire mesh as outlined in the **Unbonded Mortar Bed** section below. Alternatively, install in multiple layers less than 50mm thick. Scratch and allow to dry between layers. Slurry bond coats are required between layers.

Do not allow slurry bond coats to skin or dry out; reapply fresh slurry bond coat over skinned or dried bond coat before applying fresh mortar. Do not apply slurry bond coats to areas that are not going to be immediately covered. See TDS 1009 for more information.

Preparation

All surfaces should be between 4°C and 32°C and structurally sound, clean and free of all laitance, dirt, oil, grease, loose peeling paint, concrete sealers, curing compounds or anything that may inhibit bond. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface.

Mixing

Stir 3701 Mortar Admix thoroughly before use. For best results and economy of admix, semi-dry mixes are best when mixed in a forced blade, static drum type mixer. Wetter, plaster type mixes are best when mixed in a rotating drum mixer. Do not mix semi-dry mixes in a rotating drum mixer.

Mixing Mortar Bed – Dry Pack Consistency

Mix 20kg of LATICRETE 226 Thick Bed Mortar with approximately 1.7 - 1.9 Litres of 3701 Mortar Admix. 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 consistancy that hold its shape and presents with a slight sheen to the surface. Mix only what can be used within the pot life of the mortar. Do not allow the mix to dry out.

Bonded Mortar Bed

Installation

Pre-Screed before tile or paver installation - Immediately before placing fresh mortar, apply and work into the surface, a nominal 1 – 2mm thick slurry bond coat made of 335 Adhesive, 254 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 recieve 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.

Un-Bonded Mortar Bed

Installation

Before placing mortar, install a cleavage membrane, e.g. 200 µm polyethylene sheeting, lapped and taped on the substrate. Place, screed and compact the mortar over the cleavage membrane (approximately 1/2 the depth of the mortar bed). Next place 25 mm x 25 mm to 75 mm x 50 mm, 1.2 mm to 2 mm diameter galvanized welded wire mesh over the 1/2 depth mortar bed, lapping the mesh as required. Then, place, compact and screed the remainder of the mortar bed. The wire mesh should be suspended in the middle of the mortar bed and 200mm laps exposed where adjoining mortar beds are to be installed later. Finish as required. Minimum mortar bed thickness shall be 40 mm. In the case where tiles are to be beaten into a wet and plastic mix as the work progresses and after the second layer of the mortar bed has been applied over the mesh; follow the process outlined in the Wet-Bed installation section above. Note: A slurry bond coat should also be applied to the edges of mortar beds installed from previous work periods.

Application

Wall Renders

Mixing Wall Renders

Mix 20 kg of 226 Thick Bed Mortar to 2.4 – 2.5 litres of 3701 Mortar Additive. 20 litres of 3701 Mortar Admix mixes with 8 bags of 226 Thick Bed Mortar, yielding approximately 8 m^2 at 10 mm thick. 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 prepared substrate. Apply "scratch coat" first – not to exceed 12 mm 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 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 24 hours at 21°C prior to the installation of tile.

Concrete Repair & Patching: Semi-dry Mortar Consistency

Consistency

Mixing Patching Mortars

Mix 20 kg of 226 Thick Bed Mortar to 1.8 – 2 litres of 3701 Mortar Admix. Mix should be pliable and able to pack voids without slumping.

Concrete Repair & Patching:

Immediately before placing fresh mortar, apply and work into the surface, a nominal 1 – 2mm thick slurry bond coat made of 335 Adhesive, 254 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 on treating exposed steel in immersed installations.

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 32°C.

Cleaning

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

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide.

For Distributor information:
Toll Free: 1800 331 012
Telephone: 07 3865 1599

For online distributor information, visit LATICRETE at **www.laticrete.com.au**

Cost

Contact a LATICRETE Distributor in your area.

MAINTENANCE

LATICRETE and LATAPOXY grouts, sealers and sealants require routine maintenance and cleaning with a neutral pH detergent and water. See TDS 1113 for more information.

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

TECHNICAL SERVICES

Technical assistance

Information is available by calling:

Toll Free: 1800 331 012
Telephone: 07 3865 1599
Fax: 07 3865 2250

Technical and safety literature

To acquire technical and safety literature, please visit our website at **www.laticrete.com.au**

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.
- Efflorescence is a normal condition of Portland cement and is not covered by any warranty. The use of LATAPOXY 310 Stone Adhesive, LATAPOXY 300 Adhesive, SPECTRALOCK® PRO Premium Grout[1] and SPECTRALOCK 2000 IG will not contribute to any noticeable efflorescence.

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[1] United States Patent No.: 6,881,768 (and other Patents).