



MVIS™ Premium Mortar Bed

DS-263.0-0517

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

MVIS™ Premium Mortar Bed

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

MVIS Premium Mortar Bed is a polymer fortified blend of carefully selected polymers, portland cement and graded aggregates. MVIS 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
- 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

60 lb (27.3 kg) bag; 56 bags per pallet

Approximate Coverage

12 ft ² at 1/2" (1.1 m ² at 12 mm)
6 ft ² at 1" thickness (0.56 m ² at 25 mm)
3 ft ² at 2" (0.3 m ² at 50 mm)

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. 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 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.
- 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 C270, ASTM C157, C270, EN13813 and ASTM C627



This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

Physical Properties

Test Method	Requirement	Results
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 (7.6–8.3 MPa)
Shrinkage 7 Day Cure ASTM C157	S/o	0.05%

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)

MVIS™ 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

Wall Renders

Mixing Wall Renders

Mix a 60 lb bag (27 kg) of MVIS™ Premium Mortar Bed to 0.8 – 0.9 gallon (3 – 3.4L) 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 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 masonry. If going over lath, a minimum 1/2" (12 mm) thickness is required.

As a Pumped Mortar for Renders and Plaster

7 – 60 lb. (27.3 kg) bags of MVIS Premium Mortar Bed utilizing liquid plasticizer/pump aid. Confirm with manufacturer of pump aid for compatibility with polymer fortified mortar mixes. Approximate coverage for 7 – 60 lb. (27.3 kg) bags of mortar will be 45 ft² (4.2 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 lift/application of pumped render. Scratch up previous lift prior to placing subsequent lifts.

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).

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 Distributor Information:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line Distributor information, visit LATICRETE at www.laticrete.com.

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

DS 230.13: LATICRETE® Product Warranty

A component of:

DS 230.15: LATICRETE 15 Year System
Warranty –For Steel or Wood Framed
Exterior Facades (United States and Canada)

DS 025.0: LATICRETE 25 Year System
Warranty (United States and Canada)

8. 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.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 235
Telephone: +1.203.393.0010, ext. 235
Fax: +1.203.393.1948

Technical and Safety Literature

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

10. FILING SYSTEM

Additional product information is available on our website at www.laticrete.com. The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty
DS 230.15: LATICRETE 15 Year System
Warranty – For Steel or Wood Framed
Exterior Facades (United States and Canada)
DS 025.0: LATICRETE 25 Year System
Warranty – (United States and Canada)
DS 247.0: MVIS™ Hi-Bond Veneer Mortar
DS 633.0: LATAPOXY 300 Adhesive
DS 661.0: Air & Water Barrier