



MVIS™ Thin Brick Mortar

DS-248-1225

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

MVIS™ Thin Brick Mortar

2. MANUFACTURER

LATICRETE International, Inc.

1 LATICRETE Park North

Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 1235

Toll Free: 1.800.243.4788, ext. 1235

Fax: +1.203.393.1684

Website: laticrete.com

3. PRODUCT DESCRIPTION

MVIS Thin Brick Mortar is a multi-use, polymer fortified adhesive mortar. MVIS Thin Brick Mortar offers tremendous utility including non-sag wall installations.

Uses

- For wall installations of interior and exterior thin brick, masonry veneer, stone, and tile

Advantages

- Incredible non-sag performance, including large and/or heavy thin brick, stone, masonry veneer or tile
- Smooth and creamy consistency
- "Extra Heavy" rating per ASTM C627 (TCNA)
- Bonds to many suitable substrates
- Exceeds ANSI A118.4, A118.11 & A118.15 Requirements

Suitable Substrates

- Concrete
- Concrete Block
- CMU
- Existing Ceramic Tile and Stone
- Existing Tile Or Stone
- Cement Terrazzo

- Cement Backer Board (Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use)
- Exterior Glue Plywood (Interior use only, non-wet areas)
- Gypsum Plaster (Interior use only, non-wet areas)
- Gypsum Wallboard (Interior use only, non-wet areas)

Packaging

50 lb (22.7 kg) bag

Color

Grey

Approximate Coverage

50 lb (22.7 kg) bag

Trowel Size	ft ²
1/4" x 3/8" (6 mm x 9 mm) notched trowel	60 - 70
1/2" x 1/2" (12 mm x 12 mm) notched trowel	40 - 47
Adhered Masonry Veneer Application Method	30 - 35

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored off the ground in a dry area. *** High humidity will reduce the shelf life of bagged product.

Limitations

- Mastics, adhesive mortars and pointing mortars for thin brick, masonry veneer, stone, ceramic tile and pavers, are not replacements for waterproofing membranes or air and water barriers. When a waterproofing membrane or air and water barriers is required, use MVIS Air & Water Barrier (see Section 10 FILING SYSTEM).
- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- Not for use directly over OSB, particle board, interior glue plywood, luan, Masonite® or hardwood floors.
- Not for use over VAT, VCT, cutback adhesive, vinyl and plastic laminates.
- Not for use in submerged applications. For these applications, use MVIS™ Hi-Bond Veneer Mortar

- 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)

Cautions

- Consult SDS for more safety information.
- Some marbles and other stones have low flexural strength and might not be suitable for installation over wood floors.
- Protect finished work from traffic until fully cured.
- Contains portland cement and silica sand. Causes severe skin burns and serious eye damage. Wear protective gloves, clothing and eye protection. In case of contact, flush thoroughly with water.
- DO NOT take internally. Silica sand may cause cancer, respiratory irritation or serious lung problems. Do not breathe 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 Standard

- ANSI A118.4, ANSI A118.15, ANSI A118.11

Physical Properties

Test	Test Method	Results
Shear Bond, Porcelain Tile, 28 day	ANSI 5.2.4	400–425 psi (2.8–2.9 MPa)
Shear Bond, Quarry Tile/Plywood, 28 day	ANSI A118.11 4.1.1.2	160–180 psi (1.0–1.1 MPa)
Sag on Wall	ISO 13007-2	0.25 mm
28 Day Cure Compressive Strength	ASTM C109	>2000 psi (13.8 MPa)

Working Properties

Pot Life	4 Hours
Time To Traffic	24 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, paint, concrete sealers or curing compounds. Rough or uneven

concrete surfaces should be made smooth with MVIS Premium Mortar Bed. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. New concrete slabs shall be damp cured and 28 days old before application. All slabs must be plumb and true to within 1/4" (6 mm) in 10 ft (3 m). 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.

1. Installer must verify that deflection under all live, dead and impact loads of substrates does not exceed industry standards of L/600 for AMSMV units or 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.

For Wall and Large and Heavy Stone Application

Place 4.6 – 4.8 qts (4.4 – 4.5 L) of clean water in a pail and slowly add the entire bag of MVIS™ Thin Brick Mortar. (To mix smaller quantities use 2.4 parts powder to 1 part water.) Mix with slow speed mixer for one minute. DO NOT temper with water. Allow to slake for 5 minutes, remix and use.

For Thin Bed Applications

Place 5.0 – 5.2 qts (4.8 – 4.9 L) of clean water in a pail and slowly add the entire bag of MVIS™ Thin Brick Mortar. (To mix smaller quantities use 3.6 parts powder to 1 part water.) Mix with slow speed mixer for one minute or until a creamy smooth consistency is reached. Allow to slake for 5 minutes, remix and use.

Application

Walls

See applicable LATICRETE® details in LATICRETE Masonry Veneer Installation System Brochure (DS 002.8).

Note: If installing on sheathed wood or steel frame construction with wire lath, use MVIS Premium Mortar Bed for the wall render prior to installing applicable waterproofing membrane or MVIS Thin Brick Mortar. If waterproofing is required, install MVIS Air & Water Barrier per instructions (see Data sheet DS 663.0 and DS 663.5) to the substrate prior to installation of MVIS Thin Brick Mortar.

For adhered stone, thin brick and manufactured stone masonry veneers installations, use a gauging trowel to key a thin coat of MVIS Thin Brick Mortar to cover entire back of the veneer unit. Spread additional mortar onto the back of the skim coated veneer unit sufficient to completely fill the space between the veneer and the substrate when compressed against the substrate. Press the mortar covered back of the veneer against the substrate at the desired final position. Slide the unit roughly 1" (25 mm) diagonally from the desired final position and back into the desired position while maintaining even pressure. This should be done in such a manner as to squeeze the mortar to fill the entire space between the veneer and the substrate, allowing excess mortar to extrude on all sides around the veneer unit. Clean excess extruded mortar with trowel and spread onto the next veneer unit to be installed.

Note: Prior to installation, ensure back of veneer units are clean of dust, laitance, loose concrete crumbs and any excess film that could impede bond.

For thin brick, tile, calcium silicate unit and stone installations key MVIS™ Thin Brick Mortar into the substrate thoroughly. Then, comb on additional mortar with the notched side, use 1/4" x 3/8" (6 mm x 9 mm) or 1/2" x 1/2" (12 mm x 12 mm) loop or notch trowel. Back butter all thin brick, tile and stone veneers 8" x 8" (200 mm x 200 mm) or larger to provide full bedding of the veneer. Place veneer into the mortar and adjust to desired position. Clean any excess mortar between veneers or sides of stone or tile veneer.

Note: Use proper sized notched trowel to ensure full bedding of the veneer. Spread only enough mortar that can be covered with tile within 15–20 minutes. Adjust as necessary. Check mortar for complete coverage by periodically removing veneer units and inspecting the transfer onto the back of the tile. The size and weight of the veneer will vary. Conduct a small test area for non-sag performance. Due to job site conditions and differences in finish material types; ledger boards, shims, wedges or spacers may be required to maintain finish levels and heights.

Grouting/Pointing

Point installation after a minimum of 24 hours curing time at 70°F (21°C). Point with MVIS™ Epoxy Pointing Mortar (conduct test area to determine suitability and acceptability with

veneer), MVIS Premium Pointing Mortar mixed with water or MVIS Pointing Mortar mixed with water.

Cleaning

Clean tools with water.

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:

- 1 Year Product Warranty (US) (English)
- 15 Year MVIS System Warranty for Steel or Wood Framed Exterior Facades (US) (English)
- 25 Year MVIS System Warranty (US) (English)

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. 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.

10. FILING SYSTEM

Additional product information is available on our website at 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

LATICRETE International, Inc.

One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • www.laticrete.com

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- DS 025.0: LATICRETE 25 Year System Warranty
- DS 228.0: MVIS™ Pointing Mortar
- DS 274.0: MVIS Premium Pointing Mortar
- DS 633.0: LATAPOXY 300 Adhesive
- DS 661.0: MVIS Air & Water Barrier
- DS 002.8: LATICRETE Masonry Veneer Installation System Brochure