



MVIS™ Builders Veneer Mortar

DS-36652-0623

**Globally Proven
Construction Solutions**



- Provides maximum bond strength to veneers and substrate
- Exceeds ASTM C270 compressive strength requirements for masonry veneer installations
- Passes IBC and IRC shear bond strength code requirements for adhered masonry veneer when tested in accordance with ASTM C482
- Mixes only with water – no admix needed

Suitable Substrates

- Concrete
- Cement Mortar
- Concrete Block
- CMU
- Cement Backer Board
- Gypsum Plaster (Interior use only, non-wet areas)
- Gypsum Wallboard (Interior use only, non-wet areas)
- Exterior Glue Plywood (Interior use only, non-wet areas)

Packaging

50 lb (22.7 kg) bag

Colors

White
Grey
Brown

Approximate Coverage

50 lb (22.7 kg) bag

Trowel Size

Vertical Applications	ft ²	m ²
1/4" x 3/8" (6 mm x 9 mm) Notched Trowel	50 - 60	4.6 - 5.6
1/2" x 1/2" (12 mm x 12 mm) Notched Trowel	40 - 47	3.7 - 4.4
Adhered Masonry Veneer Application Method	26 - 31	2.4 - 2.9

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.

1. PRODUCT NAME

MVIS™ Builders Veneer Mortar

2. MANUFACTURER

LATICRETE International, Inc.
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Bethany, CT 06524-3423 USA

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Toll Free: 1.800.243.4788, ext. 1235
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3. PRODUCT DESCRIPTION

MVIS Builders Veneer Mortar is a versatile, polymer fortified adhesive mortar designed specifically for the installation of adhered masonry veneer, natural stone, manufactured stone, and thin brick. A high strength mix provides excellent performance for vertical installations and obtains maximum bond strength to the substrate and veneers. MVIS Builders Veneer Mortar offers exceptional pot life and workability to ease installation.

Uses

- For vertical, horizontal, and overhead installation of adhered masonry veneer, natural cut stone, manufactured stone, and thin brick on exterior and interior installations.
- Ideal for residential and multi-family home construction.

Advantages

- Exceeds ANSI A118.4 performance requirements

Limitations

- Mastics, adhesive mortars and pointing mortars for adhered masonry veneer, natural cut stone, manufactured stone, and thin brick are not replacements for waterproofing membranes or air and water barriers. When a waterproofing membrane or air and water barrier is required, consult products from the air barrier line from LATICRETE. (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 in submerged applications. For these applications use MVIS Hi-Bond Veneer Mortar.
- Not for Moisture sensitive stones
- Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone 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.
- Some marbles and other stone have low flexural strength and might not be suitable for exterior installations, check with veneer manufacturer for suitability.
- Protect finished work until fully cured.
- Contains portland cement and silica sand. Causes severe skin burns and eye damage. Wear protective gloves, protective 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 stone, conduct test area to ensure no shadowing or staining is observed.
- Keep out of reach of children.

4. TECHNICAL DATA

VOC/LEED Product Information

Applicable Standard

- ASTM C270
- ANSI A118.4
- ASTM C482

Physical Properties

Test	Test Method	Specification	Results
Shear Strength 28 day	ANSI A118.4-7.2.5	>200 psi (1.4 MPa)	300-400 psi (2.1-2.8 MPa)
Shear Strength 7 day	ANSI 118.4-7.1.2	>300 psi (2.1 MPa)	300-400 psi (2.1-2.8 MPa)

Working Properties

Open Time	20 minutes
Pot Life	3-4 hours
Wet Density	100 lbs/ft ³ (1600 kg/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.

5. INSTALLATION

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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 Lite Wall Float. All construction and expansion joints in the substrate must be extended outboard and respected in the adhered masonry veneer (AMV) finish material. Follow ANSI specification A108.01-3.7 "Requirements for Movement Joints: Preparations by Other Trades" or TCNA EJ171 "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 AMV units 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.

Mixing

Mix one 50 lb (22.7 kg) bag of Builders Veneer Mortar as follows:

Place approximately 4.25-5.0 qts (4.0-4.7 L) of water in a pail and slowly add the entire bag of

MVIS Builders Veneer Mortar. To mix smaller quantities use 3.6 parts powder to 1 part water. Place clean, potable water into a clean pail. 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. Jobsite conditions might vary. Add slightly more water if necessary for proper consistency.

Application

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

Note: If installing on sheathed wood or steel frame construction with wire lath, use MVIS Lite Wall Float for the wall render prior to installing applicable waterproofing membrane or MVIS Builders Veneer Mortar.

If waterproofing is required, install MVIS WCI per instructions (see DS 36616) to the substrate prior to installation of MVIS Builders Veneer Mortar.

Masonry Method:

For the masonry method of application use a hand trowel to apply a thin coat of MVIS Builders Veneer 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 unit 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" – 1 1/2" (25 - 38 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 unit and the substrate, helping to achieve 100% coverage to both the substrate and veneer unit, 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.

Notched Trowel Method:

For the notched trowel method of application, use a hand trowel to apply MVIS Builders Veneer Mortar into the substrate thoroughly and then comb on additional mortar (trowel size is determined by substrate flatness and finished

material size). Back butter all veneer units 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 finish within 15–20 minutes. Adjust as necessary. Check mortar for complete coverage by periodically removing veneer unit and inspecting the transfer onto the back of the veneer. 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 12–24 hours curing time at 70°F (21°C). Cooler temperatures require a longer curing time. Point with MVIS Pointing Mortar or MVIS Premium Pointing Mortar Base according to product instructions.

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](http://laticrete.com)

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

- 1 Year Product Warranty (US - English)

8. MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation 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: 1 Year Product Warranty
- DS XXX: 5 Year Product Warranty
- DS 228.0: MVIS Pointing Mortar
- DS 247.0: MVIS Hi-Bond Veneer Mortar
- DS 36622-1121: MVIS Lite Wall Float
- DS 36653-0522: MVIS Premium Pointing Mortar Base
- DS 36616: MVIS WCI
- DS 002.8: MVIS Masonry Veneer Installation System Brochure

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