Masonry Veneer Mortar

DS-060.0-0412

1. PRODUCT NAME

LATICRETE® Masonry Veneer Mortar

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

LATICRETE Masonry Veneer Mortar is a patented, versatile polymer fortified mortar designed specifically for the installation of adhered masonry veneer, stone and thin brick. A high performance mix provides maximum non-sag performance for vertical installations and also obtains maximum bond strength to the substrate and selected veneers. Reinforced with Kevlar® for added strength, LATICRETE Masonry Veneer Mortar offers exceptional workability and is backed by an available 25 Year System Warranty (see DS 025.0SPD).

Uses

- For vertical, horizontal and overhead installation of manufactured stone and thin brick veneers on exterior and interior installations.
- Ideal for both commercial and residential installations

Advantages

- Incredible non-sag performance – faster, easier installations
- Revolutionary patented formula provides maximum bond strength to veneers and substrate–exceeds ANSI A118.4 requirements
- 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
- Reinforced with Kevlar
- Lightweight mortar — very smooth and easy to apply
- GREENGUARD certified for low VOC's
- Inhibits the growth of stain-causing mold and mildew with Microban® antimicrobial product protection.

Suitable Substrates

- Cement mortar (Scratch & brown coat)
- Concrete
- Concrete block
- Cement backer board**
- Masonry and brick

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

Packaging 40 lb (18 kg) bag

Colors Grey

Approximate Coverage

40 lb (18 kg) bag

Trowel Size

Vertical Applications—	ft^2	m^2
1/4" x 3/8" (6 mm x 9 mm) notched trowel	58-62	5.4-5.8
1/2" x 1/2" (12 mm x 12 mm) notched trowel	42-48	3.9-4.5
Adhered Masonry Veneer Application Method	31-38	2.9-3.5

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

- Mastics, adhesive mortars and pointing mortars for thin brick, masonry veneer, stone, ceramic tile, pavers and thin brick are not replacements for waterproofing membranes or air and water barriers. When a waterproofing membrane or air and water barriers is required, use a LATICRETE 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 in submerged or steam room applications. For these applications use LATICRETE Hi-Bond Masonry Veneer Mortar.
- Use LATAPOXY® 300 Adhesive for installing green marble, Resin backed, or moisture 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 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/480 for thin bed stone installations where L=span length. For exterior vertical installations over framed construction, the substrate deflection under all lice, 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.

- Some marbles and other stone have low flexural strength and might not be suitable for exterior installations, check with veneer manufacturer for suitability.
- 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 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

This product has been GREENGUARD Indoor Air Quality Certified® by the GREENGUARD Environmental Institute under the GREENGUARD Standard for Low Emitting Products in finished form.

Total VOC Content pounds/gallon (grams/liter) of product in unused form is 0.00 lb/gal (0.00 g/l).

Applicable Standard

ANSI A118.4, ANSI A118.11, ASTM C270

Physical Properties

(Mixed with 5.9 qts of water [5.6 lℓ)

Test	Test Method	Results
Shear Bond, Vitreous Tile, 28 day	ANSI AS118.4 5.2.4	350–400 psi (2.4–2.8 MPa)
7 day Cure, Water Soak Test, Vitreous Tile	ANSI A118.4 5.2.3	275–350 psi (1.9–2.4 MPa)
Sag on Wall	ISO 13007-2 4.2	0 mm No Sag observed
28 day cure compressive strength	ASTM C109	2400-2800 psi (16.6-19.3 MPa)

Working Properties

Pot Life	4 hours
Wet Density	10.8 lbs per gallon (1.3 gm/cm^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

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 LATICRETE® Premium Mortar Bed. Expansion joints shall be provided through the adhered manufactured stone masonry veneer (AMSMV) 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.

Mixing–40 lb (18 kg) bag

Place approximately 5.9 qts (5.6 ℓ) of clean water in a pail and slowly add the entire bag of LATICRETE Masonry Veneer Mortar. 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 LATICRETE Masonry Veneer Installation System Brochure (DS 002.8).

Note: If installing on sheathed wood or steel frame construction with wire lath, use LATICRETE Premium Mortar Bed for the wall render prior to installing applicable waterproofing membrane or LATICRETE Masonry Veneer Mortar.

If waterproofing is required, install LATICRETE Air & Water Barrier per instructions (see Data sheet DS 661.0) to the substrate prior to installation of LATICRETE Masonry Veneer Mortar.

For adhered stone, thin brick and manufactured stone masonry veneers installations, use a gauging trowel to key a thin coat of LATICRETE Masonry 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" (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 unit 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 LATICRETE Masonry Veneer 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 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 tile. 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 unit 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 12–24 hours curing time at 70°F (21°C). Point with LATICRETE Masonry Pointing Mortar or LATICRETE Premium Masonry Pointing Mortar according to product instructions.

Cleaning

Clean tools with water.

6. AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY® 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 **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 230.15SPD: LATICRETE 15 Year System Warranty –SPD (For Steel or Wood Framed Exterior Facades)
DS 025.0SPD: LATICRETE 25 Year System Warranty–SPD

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 (hours 8:00 AM to 5:30 PM EST):

Telephone: +1.203.393.0010, ext. 235
Toll Free: 1.800.243.4788, 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 230.15SPD: LATICRETE 15 Year System Warranty –SPD (For Steel or Wood Framed Exterior Facades)
DS 025.0SPD: LATICRETE 25 Year System Warranty–SPD
DS 228.0: LATICRETE Masonry Pointing Mortar
DS 633.0: LATAPOXY® 300 Adhesive
DS 661.0: LATICRETE Air & Water Barrier
DS 274.0: LATICRETE Premium Masonry Pointing Mortar
DS 263.0: LATICRETE Premium Mortar Bed
DS 002.8: LATICRETE Masonry Veneer Installation System Brochure
DS 247.0: LATICRETE Hi-Bond Masonry Veneer Mortar

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