1. PRODUCT NAME
MVIS™ Hi-Bond Rapid Veneer Mortar

2. MANUFACTURER
LATICRETE International, Inc.
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Fax: +1.203.393.1684
Internet: www.laticrete.com

3. PRODUCT DESCRIPTION
The ultimate, rapid setting polymer fortified, thin-set mortar for interior
and exterior installation of masonry veneer, quarry tile, pavers and
brick. MVIS Hi-Bond Rapid Veneer Mortar is designed to mix with just
water and provide unsurpassed adhesion and workability.

Uses
Excellent for exterior and submerged applications, with a
superior bond to exterior glue plywood and concrete. MVIS Hi-Bond
Rapid Veneer Mortar is the ultimate rapid-setting thin-set for masonry
veneer.

Advantages
- Ultimate adhesion for masonry veneer
- Rapid Set Mortar; can be grouted/pointed in 2–4 hours
- Incredible bond to exterior glue plywood* and concrete
- Excellent shear bond strength
- High performing smooth creamy formula
- Contains antimicrobial protection to inhibit the growth of stain-
cauising mold and mildew in the substrate
- Exceeds ANSI A118.4 & ANSI A118.11 Shear Bond Strength
  Requirements
- Exceeds ASTM C270 compressive strength requirements for
  masonry veneer installations.
- LATICRETE® 25 Year System Warranty (United States and
  Canada) for masonry veneer installations over concrete and
  masonry substrates**

* Interior use only.
** When used as a component of the LATICRETE® 25 Year System Warranty (United
States and Canada)(DS-025.0)

Suitable Substrates
- Exterior Glue Plywood*
- Concrete
- Concrete Block
- Cement Mortar
- Masonry And Brick
- Cement Terrazzo
- Cement Backer Boards**
- Existing Ceramic Tile And Stone

Packaging
25 lb bag (11.3 kg); 104 bags per pallet

Color
Grey

Approximate Coverage

<table>
<thead>
<tr>
<th>Vertical Applications</th>
<th>ft²</th>
<th>m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; x 3/8&quot; (6 mm x 9 mm) Notched Trowel</td>
<td>25-30</td>
<td>2.3-2.8</td>
</tr>
<tr>
<td>1/2&quot; x 1/2&quot; (12 mm x 12 mm) Notched Trowel</td>
<td>20-23</td>
<td>1.9-2.1</td>
</tr>
</tbody>
</table>

Coverage will vary depending on trowel notch size, type and size of tile/stone and
substrate.

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 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 barrier
  is required, use MVIS 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.
- Not for use directly over particle board, luan, Masonite® or hardwood floors.
- Use LATAPOXY® 300 Adhesive for installing green marble, resin backed, or 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 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 stones have low flexural strength and may not be suitable for installation over wood floors.
- 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 Standard
ASTM C109, ANSI A118.4, ANSI A118.11, ASTM C270

This product has a cradle-to-gate (with options) Product-Specific (Type III) Environmental Product Declaration. The PCR review, life cycle assessment and declaration were independently verified by UL Environment in accordance with ISO 14025, ISO 14040 and ISO 14044.

Physical Properties

<table>
<thead>
<tr>
<th>Test/Test Method</th>
<th>Specification</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shear Bond, Vitreous Tile, 28 day cure ANSI A118.4–5.2.4</td>
<td>200 psi (1.4 MPa)</td>
<td>450–550 psi (3.1–3.8 MPa)</td>
</tr>
<tr>
<td>Shear Bond, Vitreous Tile Water Immersion ANSI A118.4–5.2.3</td>
<td>150 psi (1.0 MPa)</td>
<td>225–275 psi (1.6–1.9 MPa)</td>
</tr>
<tr>
<td>Shear Bond, Quarry Tile/Plywood ANSI A118.11</td>
<td>150 psi (1.0 MPa)</td>
<td>220–250 psi (1.5–1.7 MPa)</td>
</tr>
<tr>
<td>28 Day Cure Compressive Strength ASTM C109</td>
<td>2000 psi (13.8 MPa)</td>
<td>1800–2100 psi (12.4–14.5 MPa)</td>
</tr>
</tbody>
</table>

Working Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Time</td>
<td>30</td>
</tr>
<tr>
<td>Pot Life</td>
<td>50</td>
</tr>
</tbody>
</table>

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 must be damp cured and at least 28 days old prior to application. 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.

Mixing
Place clean, potable water into a clean pail. Add MVIS Hi-Bond Rapid Veneer Mortar. Use approximately 3 qts (2.9 L) of water for 25 lbs (11.3 kg) of powder. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow mortar to stand 5 minutes. Remix without adding any more water or powder. During use, stir occasionally to keep mix fluffy. DO NOT temper with water.

Application
See applicable LATICRETE details in LATICRETE® 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 Hi-Bond Rapid Veneer Mortar.

If waterproofing is required, install MVIS Air & Water Barrier per instructions (see DS 661.0 and DS 661.5) to the substrate prior to installation of MVIS Hi-Bond Rapid Veneer Mortar.

For adhered stone, thin brick and manufactured stone masonry veneers installations, use a gauging towel to key a thin coat of MVIS Hi-Bond Rapid Veneer Mortar to cover entire back of the veneer units. Spread additional mortar onto the back of the skim coated veneer 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 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 MVIS Hi-Bond Rapid 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 thin brick, 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 on 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 2 - 4 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, or MVIS Pointing Mortar.

Cleaning
Clean tools and masonry with water while 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 State and Canada)
DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)

8. MAINTENANCE
LATICRETE and LATAPOXY grouts and pointing mortar 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