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THE CHALLENGE

The explosive increase in popularity of adhered masonry veneer facades has created a need for higher performance, factory produced installation materials to assure consistently high quality installations. Up to now, the installation of masonry veneers has required the use of site-mixed Type S mortars — materials that are subject to large variations in consistency, quality and performance and which also limit the installation technique to that of traditional masonry.

Many projects have been plagued by delaminating stone and water intrusion among other installation issues inherent to materials and techniques which are limited in flexibility and margin for error. This traditional method is not engineered as part of a complete wall system and therefore does not offer warranties from a reliable source willing to stand behind the installation.

THE SOLUTION

Realizing these shortcomings, and based on our globally proven technology, LATICRETE has developed an installation system that provides a permanent, high strength installation that is freeze/thaw stable and protected from water intrusion.

Backed by the LATICRETE® 25 Year System Warranty*, the LATICRETE Masonry Veneer Installation System (MVIS™) allows for increased productivity utilizing either traditional masonry installation techniques or the “tile setter’s” method.

Vastly expanded architectural details are offered at www.laticrete.com/MVIS to help design professionals, contractors and installers understand the range of possible applications — and appropriate products and techniques which will assure long-term performance on projects of all types.

* See Data Sheet 025.0 for complete warranty information.
LATICRETE® MASONRY VENEER MORTAR
A patented polymer fortified mortar designed specifically for the installation of stone, thin brick and manufactured stone masonry veneers.
Our unique formulation provides exceptional workability, maximum non-sag performance and extended adjustability of installed pieces for all vertical installations. LATICRETE® Masonry Veneer Mortar allows for more rapid installation resulting in higher labor production rates, and maximum bond between substrate and selected veneers.
See Data Sheet 060.0 for complete product information.

LATICRETE MASONRY POINTING MORTAR
Designed specifically for easy installation and clean-up when used with natural or manufactured stone masonry veneers. Easy to mix and highly workable, LATICRETE Masonry Pointing Mortar provides a finished joint that is dense, hard and durable.

LATICRETE HYDRO BAN™
A single component self curing liquid rubber polymer that forms a thin, flexible, seamless, load-bearing and breathable waterproofing/crack isolation membrane. LATICRETE Hydro Ban™ bonds directly to a wide variety of substrates and does not require the use of fabric in the field, coves or corners.
See Data Sheet 663.0 for complete product information.

LATICRETE 3701 FORTIFIED MORTAR BED
Designed for use where metal lath or a leveling bed is a desired element of an installation, LATICRETE 3701 Fortified Mortar Bed is a one-step polymer fortified blend of carefully selected raw materials, which when mixed with water forms a high-strength and easily workable mortar for wall applications.
See Data Sheet 100.0 for complete product information.

LATAPoxy® WATERPROOF FLASHING MORTAR
An epoxy-based 3-component, trowel applied, waterproofing and vapor barrier membrane. Can be used to waterproof seams, gaps or joints between a variety of substrates and bonds to metal and PVC pipe penetrations or flashing. It is specifically designed to be used as a fast curing waterproof flashing under stone, thin brick or manufactured stone masonry veneers.
See Data Sheet 070.0 for complete product information.

LATICRETE LATASIL™
High performance silicone sealant designed for interior or exterior use in coves, corners, changes in plane and expansion joints in applications of stone, thin brick or manufactured stone masonry veneers. Ideal for wet area applications.
See Data Sheets 6200.1 and 6528.1 for complete product information.
LATICRETE offers a comprehensive 25 year, 100% labor and materials system warranty* for masonry veneer installations over concrete and masonry substrates (for both interior and exterior applications) and a 15 year, 100% labor and materials system warranty** for steel or wood framed exterior facades.

*LATICRETE Warranties Cover Any Suitable Tile or Stone Manufacturer’s Product, Allowing You to Select the Appropriate Product and Finish You Desire for Your Project
**Customizable Warranties Are Available to Suit Your Specific Project Requirements

*See Data Sheet 025.0 for complete warranty details
**See Data Sheet 230.15MVIS for complete warranty details.

LATICRETE is a member of The Masonry Veneer Manufacturers Association (MVMA), an organization representing manufacturers and suppliers of manufactured stone and brick veneer products. The MVMA proactively seeks to advance the growth of manufactured masonry veneer products through technical advocacy and awareness efforts.

- Supports the Development of ASTM Product and Installation Standards as well as ICC-ES Codes and Standards
- Establishes Cooperative Relationships With NAHB, the Green Building Council, LEED, AIA, ASLA and CSI

LATICRETE is Certified by GREENGUARD for Children & Schools. The GREENGUARD Certification requires third party testing of indoor emissions.

Many companies might say their products are low VOC, only one independently certifies it — LATICRETE.

- Third Party GREENGUARD Certification, Required to Meet Stringent Indoor Air Quality Standards
- Certified by GREENGUARD for Children & Schools
- Helps Contribute Toward LEED Certification
- Product Certifications Readily Available at www.laticrete.com/green

*See Data Sheet 025.0 for complete warranty details
**See Data Sheet 230.15MVIS for complete warranty details.
## LATICRETE® 25 Year System Warranty

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>PRODUCTS</th>
</tr>
</thead>
</table>
| Underlayment                 | LATICRETE® 86 Latilevel™  
|                              | LATICRETE Admix & Primer                                                 |
| Floor Warming                | LATICRETE Floor HEAT Mat                                                |
| Waterproofing/Anti-Fracture   | LATICRETE 9235 Waterproofing Membrane  
|                              | LATICRETE Hydro Ban™  
|                              | LATAPOXY® Waterproof Flashing Mortar                                    |
| Sound Control/Anti-Fracture   | LATICRETE 125 Sound & Crack Adhesive  
|                              | United States Invention Patent No.: 6,784,229 B2 (and other Patents).  
|                              | LATICRETE 170 Sound & Crack Isolation Mat  
|                              | * LATICRETE QT Sound Control Underlayment Patent No.: 6,920,723         |
|                             |                                                                          |
| Plaza & Deck                 | LATICRETE Plaza and Deck System                                          |
| Thick Bed Method             | LATICRETE 3701 Fortified Mortar Bed  
|                              | LATICRETE 3701 Mortar Admix mixed with LATICRETE 226 Thick Bed Mortar    |
| Slurry Bond Coat             | LATICRETE 254 Platinum  
|                              | * LATICRETE 4237 Latex Additive mixed with either of the following  
|                              | — LATICRETE 211 Powder; or  
|                              | — LATICRETE 317; or  
|                              | — LATICRETE 290                                                          |
| Thin Bed Method              | LATICRETE 254 Platinum (regular or rapid version)  
|                              | LATICRETE 255 MultiMax™  
|                              | United States Invention Patent No.: 6,784,229 B2 (and other Patents).  
|                              | LATAPOXY 300 Adhesive  
|                              | LATICRETE Sure Set™  
|                              | LATICRETE 4-XLT  
|                              | * LATICRETE 4237 Latex Additive mixed with either of the following  
|                              | — LATICRETE 211 Powder; or  
|                              | — LATICRETE 317; or  
|                              | — LATICRETE 290                                                          |
|                              | * LATICRETE 325 Premium Flexible Adhesive mixed with LATICRETE 333 Super Flexible Additive |
|                             |                                                                          |
| Spot Bonding                 | LATAPOXY 310 Stone Adhesive — Standard and Rapid Grade                  |
| Masonry Veneer Installation System | LATICRETE Masonry Veneer Mortar  
|                              | LATICRETE Masonry Pointing Mortar                                       |
| Grouting                     | LATICRETE SpectralOCK® PRO Grout  
|                              | United States Invention Patent No.: 6881768 (and other Patents)  
|                              | (non-industrial applications)  
|                              | LATICRETE SpectralOCK® 2000 IG  
|                              | LATICRETE PermoColor™ Grout  
|                              | United States Invention Patent No.: 6784229 B2 (and other Patents)  
|                              | * LATAPOXY SP-100                                                       |
| Sealant*                     | LATICRETE Latted™  
|                              | LATICRETE Latted 9118 Primer                                             |

† Use of suitable flexible sealant is required per Tile Council of North America Detail EJ771 for use in expansion joints, coves, corners, changes in plane and other joints or wherever tile or stone abuts dissimilar materials or restraining surfaces.

‡ LATICRETE® Floor Warming Thermostat sold by LATICRETE International, Inc., warrants parts and materials for one (1) year from the date of purchase. The sole remedy for the LATICRETE Floor Warming Thermostats is product replacement (see US 230.13 for full details on the LATICRETE Product Warranty).

* Available in the markets outside of the United States of America and Canada.

### LIMITED WARRANTY

Subject to the conditions and limitations stated below, LATICRETE INTERNATIONAL, INC. ("LATICRETE") warrants that the products listed on this document will be free from manufacturing defects and will not break down or deteriorate under normal usage for a period of twenty-five (25) years from the date of purchase when installed in accordance with the written specifications of LATICRETE and industry standard guidelines. For this limited warranty to apply, the applications that comprise the installation must be performed with the products listed in this document for each application (refer to chart).

### DISCLAIMER

THIS LIMITED WARRANTY IS GIVEN IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES BASED ON SAMPLES OR ORAL STATEMENTS, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS DOCUMENT. IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED.

### EXCLUSIVE REMEDY

The sole and exclusive remedy for a breach of this limited warranty is replacement of only the specific portion of the installation that is proven to be defective*. LATICRETE will pay for replacement of its own products and replacement of finishing materials, as well as for labor for the replacement installation, but LATICRETE will not pay more, calculated on a square-foot (square-meter) basis, for the replacement than the original purchase price of the portion being replaced. LATICRETE will not pay for replacement of any portion of the installation that is not proven to be defective.

In the event that the sole and exclusive remedy described above fails of its essential purpose, the liability of LATICRETE is limited to the monetary value, on a square-foot (square-meter) basis, of the original purchase price of the portion being replaced. Notwithstanding the previous paragraphs, exterior facades with ceramic tile or stone installed over substrates with steel or wood framing do not qualify for this limited warranty—see Data Sheet 230.15 and 230.15AWS for such applications.

**NOTE: EFFLORESCENCE IS A NORMAL CONDITION OF PORTLAND CEMENT MORTAR AND IS NOT A DEFECTIVE CONDITION.

### EXCLUSIONS

LATICRETE is not responsible for workmanship not in accordance with the instructions of LATICRETE and industry standard guidelines. Cracking due to structural movement, excessive deflection or other failure in the substrate is also not covered.

LATICRETE IS NOT LIABLE FOR ANY INCIDENTAL DAMAGES OR CONSEQUENTIAL DAMAGES, INCLUDING LOSSES DUE TO DELAYS, INCURRED BY THE PURCHASER OR ANY OTHER PARTY.

### NO ASSIGNMENT

This limited warranty is not transferable or assignable.

### HOW TO MAKE A CLAIM

To make a claim under this limited warranty, you must notify LATICRETE in writing within thirty (30) days of the discovery of the alleged manufacturing defect. At the option of LATICRETE, you may be required, as a condition of this limited warranty, to provide proof of product purchase and use.

### ADDRESS YOUR CLAIM TO:

LATICRETE INTERNATIONAL, INC.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA
Attn.: Technical Services Department

### TECHNICAL INFORMATION

Technical assistance and information is available by calling the LATICRETE Technical Services Line:

<table>
<thead>
<tr>
<th>Toll Free:</th>
<th>1.800.243.4788, ext. 235</th>
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<tbody>
<tr>
<td>Telephone:</td>
<td>+1.203.393.0010, ext. 235</td>
</tr>
<tr>
<td>Fax:</td>
<td>+1.203.393.1948</td>
</tr>
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www.laticrete.com | Innovative Tile and Stone Installation Systems
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS specification for additional design considerations.

**Note:**

If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS specification for additional design considerations.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS specification for additional design considerations.

Note:

Revision Date: 03/10
Scale: NTS

If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards.

As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.
Ceramic Tile or Stone

LATICRETE® Masonry Pointing Mortar

LATICRETE Masonry Veneer Mortar

LATICRETE Hydro Ban™

LATICRETE 3701 Fortified Mortar Bed

Concrete

Note:
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation — Type/Location to be Determined by Design Professional. See full MVIS specification for additional design considerations.
If Exterior, Vapor Barrier/Water Resistant Barrier, Waterproofing Membrane, Flashing and Insulation — Type/Location to be Determined by Design Professional. See full MVIS specification for additional design considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.
# LATICRETE® 15 Year MVIS Warranty

## APPLICATION

<table>
<thead>
<tr>
<th>PRODUCTS</th>
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<tbody>
<tr>
<td><strong>Waterproofing</strong></td>
</tr>
<tr>
<td>LATICRETE® Hydro Ban™</td>
</tr>
<tr>
<td>LATAPOXY® Waterproof Flashing Mortar</td>
</tr>
<tr>
<td><strong>Scratch &amp; Brown Plaster Coats</strong></td>
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<tr>
<td>LATICRETE 3701 Fortified Mortar Bed</td>
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<tr>
<td><strong>Thin Bed Method</strong></td>
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<tr>
<td>LATICRETE Masonry Veneer Mortar</td>
</tr>
<tr>
<td><strong>Pointing / Grouting</strong></td>
</tr>
<tr>
<td>LATICRETE Masonry Pointing Mortar</td>
</tr>
<tr>
<td><strong>Sealant</strong>†</td>
</tr>
<tr>
<td>LATICRETE Latsil™</td>
</tr>
<tr>
<td>LATICRETE Latsil 9118 Primer</td>
</tr>
</tbody>
</table>

*Use of suitable flexible sealant is required per Tile Council of North America Detail EJ171 for use in expansion joints, coves, corners, changes in plane and other joints or wherever tile or stone abuts dissimilar materials or restraining surfaces.

## LIMITED WARRANTY

Subject to the conditions and limitations stated below, LATICRETE INTERNATIONAL, INC. ("LATICRETE") warrants that the products listed on this document will be free from manufacturing defects and will not break down or deteriorate under normal usage for a period of fifteen (15) years from the date of purchase when installed in accordance with the written specifications of LATICRETE and industry standard guidelines. For this limited warranty to apply, the applications that comprise the installation must be performed with the products listed in this document for each application (refer to chart). Veneer installations over 5,000 square-feet (450 square-meters) require pre-approval by LATICRETE Technical Services 1.800.243.4788 ext. 235, technicalservices@laticrete.com

## DISCLAIMER

THIS LIMITED WARRANTY IS GIVEN IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES BASED ON SAMPLES OR ORAL STATEMENTS, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS DOCUMENT. IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED.

## EXCLUSIVE REMEDY

The sole and exclusive remedy for a breach of this limited warranty is replacement of only the specific portion of the installation that is proven to be defective**. LATICRETE will pay for replacement of its own products and replacement of finishing materials, as well as for labor for the replacement installation, but LATICRETE will not pay more, calculated on a square-foot (square-meter) basis, for the replacement than the original purchase price of the portion being replaced. LATICRETE will not pay for replacement of any portion of the installation that is not proven to be defective.

In the event that the sole and exclusive remedy described above fails of its essential purpose, the liability of LATICRETE is limited to the monetary value, on a square-foot (square-meter) basis, of the original purchase price of the portion being replaced.

**Note: Efflorescence is a normal condition of Portland Cement Mortars and is not a defective condition.

## EXCLUSIONS

LATICRETE is not responsible for workmanship not in accordance with the instructions of LATICRETE and industry standard guidelines. Cracking due to structural movement, excessive deflection or other failure in the substrate is also not covered.

LATICRETE IS NOT LIABLE FOR ANY INCIDENTAL DAMAGES OR CONSEQUENTIAL DAMAGES, INCLUDING LOSSES DUE TO DELAYS, INCURRED BY THE PURCHASER OR ANY OTHER PARTY.

## NO ASSIGNMENT

This limited warranty is not transferable or assignable.

## HOW TO MAKE A CLAIM

To make a claim under this limited warranty, you must notify LATICRETE in writing within thirty (30) days of the discovery of the alleged manufacturing defect. At the option of LATICRETE, you may be required, as a condition of this limited warranty, to provide proof of product purchase and use.

Address your claim to:

LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA
Attn.: Technical Services Department

## TECHNICAL INFORMATION

Technical assistance and information is available by calling the LATICRETE Technical Services Line:

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

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If Exterior, Vapor Barrier/Water Resistant Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations, consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.

Note: A 4” (100mm) minimum gap is required at the base of the wall for proper drainage and to avoid water intrusion into the assembly.
If Exterior, Vapor Barrier/Water Resistant Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE® offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.
Exterior Cladding (Siding Shown)
NOTE: Other Finishes May Be Used

(1) Layers WRB – lap over back leg of flashing
Extend WRB Form Wall Below 6” (150mm) Min. Above Cladding Transition

Corrosion Resistant Flashing With Drip Edge

Bedding Seal Under Corrosion Resistant Flashing

(2) Layers WRB

Masonry Veneer Support Angle
Adhered Masonry Veneer
LATICRETE® Masonry Veneer Mortar
LATICRETE Hydro Ban™
Cement Backer Board
LATICRETE Masonry Pointing Mortar

Sheathing

Note: Flashing to be installed prior to adhered masonry veneer. Water resistive barrier laps over back leg of flashing for positive drainage. Verify installation requirements with adhered masonry veneer manufacturer.
Batt Insulation

Sheathing

(2) Layers WRB

Cement Backer Board

LATICRETE Masonry Veneer Mortar

Adhered Masonry Veneer

LATICRETE Masonry Pointing Mortar

LATICRETE Hydro Bar™

Double Wrap WRB Around Corner 16” (400mm) Min.—Both Sides of Wall System At Corner

Backer Rod

LATICRETE Latasil™

Note: Randomly alternate end returns above and below at the corner.
Note: Randomly alternate ends above and below to interweave the corner. Double wrap water resistive barrier around both sides of the corner. Lap lath to the framing at least 16” to the next framing member.
Blocking For Cement Backer Board
Panel Edge — All Edges To Be Supported

Exterior Finish (Siding Shown)

(2) Layers WRB
Strip Of SAF—Lap Over
Corrosion Resistant Flashing

Corrosion Resistant Trim Flashing With
3” (75mm) Min. Vertical Leg
Provide End Dam At Flashing Termination

Horizontal Wood Trim (Primed)

Corrosion Resistant Flashing
Provide End Dam At Flashing Termination
Bedding Seal Under
Corrosion Resistant Flashing

Casing Bead Over WRB
Adhered Masonry Veneer

LATICRETE® Masonry Veneer Mortar
LATICRETE Hydro Ban™
Cement Backer Board
LATICRETE Masonry Pointing Mortar

2 Layers WRB
Sheathing

Note: Self-adhered flashing (SAF) to be lapped shingle-fashion over corrosion resistant flashing.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.

SAF Behind Trim—Extend Under Adjacent Finish As Required

Sheathing

Adjacent Finish Varies

Backer Rod And LATICRETE® Latasil

Casing Bead – 6” (150mm) Min. Strip Of SAF Over Casing Bead

2 Layers WRB – Lap Over SAF And Casing Bead

Cement Backer Board

LATICRETE® Hydro Ban™

LATICRETE Masonry Pointing Mortar

LATICRETE Masonry Veneer Mortar

Adhered Masonry Veneer

\[ \frac{3}{8}” (9mm) \]

Note: Self-adhered flashing (SAF) to extend under the adjacent finishes. A 3/8” (9mm) minimum gap to be used between finishes. SAF to overlap casing bead 6” (150mm) minimum.
Note: Water-resistive barrier to be in place prior to soffit installation followed by backer board and adhered masonry veneer system.
Note: Water-resistive barrier should be in place prior to soffit installation followed by adhered masonry veneer.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.

Casing Bead
SAF OR WRB Strip Behind Trim–Lap
Over 2 Layers WRB at Wall–4”[100mm] Min. Lap Over WRB

Adhered Masonry Veneer
LATICRETE® Masonry Pointing Mortar
LATICRETE Masonry Veneer Mortar
LATICRETE Hydro Ban™
Cement Backer Board
2 Layers WRB
Sheathing

Note: Lap self-adhered flashing a minimum of 4” (100mm) over WRB.
SAF OR WRB Strip Behind Trim—Lap Over 2 Layers WRB at Wall—4” [100mm] Min. Lap Over WRB

Backer Rod and LATICRETE Latasil
Lap Over Top of Adhered Masonry Veneer

Casing Bead over (2) Layers WRY
OPTION: Use Wood Stop or 1X Filler Behind Sub Fascia
Adhered Masonry Veneer

LATICRETE Masonry Pointing Mortar
LATICRETE Masonry Veneer Mortar
LATICRETE Hydro Ban

Cement Backer Board

2 Layers WRB

Sheathing

Note: Lap self-adhered flashing a minimum of 4” (100mm) over WRB.
Adhered Masonry Veneer
LATICRETE Masonry Pointing Mortar
LATICRETE Masonry Veneer Mortar
LATICRETE® Hydro Ban
Cement Backer Board

2 Layers WRB Lap Over Step Flashing and Weep Screed
Blocking for Lath Edge and Corrosion Resistant Flashing
Corrosion Resistant Step Flashing at Rake per Roof Manufacturer’s Recommendation
Weep Screed – Lap Over Corrosion Resistant Step Flashing 2” min.

Roof Type May Vary – Composition Shingle Roof Shown
Roof Underlayment – turn up at Side Wall

Note: Water-resistive barrier to lap over step flashing and weep screed.
If Exterior, Vapor Barrier/Water Resistant Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards.

As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.
Adhered Masonry Veneer
LATICRETE Masonry Veneer Mortar
LATICRETE® Hydro Ban
Cement Backer Board
2 Layers WRB Lap over Weep Screed
LATICRETE Masonry Veneer Mortar
Blocking for Lath Edge and Corrosion Resistant Flashing
Corrosion Resistant Side Wall Flashing
Per Roof Manufacturer’s Recommendation
Weep Screed—Lap Over Corrosion Resistant
Rake Wall Flashing 2” min.

Roof Type May Vary
Roof Underlayment—Turn up at Side Wall

Note: Water—resistive barrier to lap over step flashing and weep screed.
Adhered Masonry Veneer
LATICRETE Masonry Veneer Mortar
LATICRETE® Hydro Ban™
Cement Backer Board
LATICRETE Masonry Pointing Mortar

2 Layers WRB—Lap Over Weep Screed
and Corrosion Resistant Flashing
Blocking for Lath Edge
and Corrosion Resistant Flashing

Weep Screed
Corrosion Resistant Counterflushing
1X Filler
Corrosion Resistant Side Wall Flashing
Per Roof Manufacturer’s
Recommendation

Roof Type May Vary
Roof Underlayment—
Turn up at Side Wall
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Scale: NTS
If Exterior, Vapor Barrier/Water Resistant Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

Window Frame (Profile May Vary) – Refer to Window Mfr’s. Details for Installation and Flashing
Bedding Sealant Under Window Fin.
Backer Rod and Sealant (3/8" [9mm] min. width)
Casing Bead
SAF Sill Flashing Under Window Fin. Lap over WRB 4” min.
Adhered Masonry Veneer With Sloped Top
LATICRETE® Masonry Veneer Mortar
Adhered Masonry Veneer
LATICRETE Masonry Pointing Mortar
LATICRETE Hydro Ban™
Cement Backer Board
WRB under sill SAF
Sheathing

Note: Rough openings must be properly flashed prior to window installation. Sill flashing to drain between layers of water-resistive barrier to exterior of adhered masonry veneer. Tuck water-resistive barrier under pan flashing at sill.

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NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.
Window Frame (Profile May Vary)—Refer to Window Mfr’s. Details for Installation and Flashing
9” SAF Jamb Flashing Under Window Fin
Bedding Sealant Under Window Fin
Sheathing
2 Layers WRB Seal Edge to Fin
Cement Backer Board
LATICRETE Hydro Ban™
LATICRETE Masonry Pointing Mortar
LATICRETE Masonry Veneer Mortar
Adhered Masonry Veneer
Bedding Sealant Under WRB Lapped Over Casing Bead
Casing Bead (OPTION: Lap SAF Over Leg)
Backer Rod and LATICRETE Latasil (8” [9mm] min. width)

Note: Rough openings must be properly flashed prior to window installation. Flashing should drain between layers of water—resistive barrier. Extend layers of flashing to extreme of adhered masonry veneer. Tuck water—resistive barrier under paper at sill.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards.

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Cement Backer Board

Extend Cricket Min. 2” Beyond Chase

Typical Corrosion Resistant Cricket Per Roof Manufacturer’s Recommendations

2 Layers WRB
Weep Screed
Corrosion Resistant Counterflashing
Corrosion Resistant Cricket

2” Min. Lap

Enlargement

2 Layers WRB
Cement Backer Board
LATICRETE® Hydro Ban™
LATICRETE Masonry Pointing Mortar
LATICRETE Masonry Veneer Mortar
Adhered Masonry Veneer Over Framed Wall Or Chimney Chase

Composition Shingle Roofing (Other Roofing Similar)

Underlayment Over Roof Substrate Lap Over Cricket Flange

Corrosion Resistant Cricket—Provide Sheathing And Framing Support As Needed Extend Flashing 2” Beyond Chimney Chase To Accommodate Installation of Veneer (See Cricket Drawing Above)

As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.
NOTE: Maintain Minimum Clearance Of Combustible Materials Per Chimney
Manufacturer’s Recommendations

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CBB MVIS – Chimney Chase – MVIS 123
Wall System
Exterior Rated Sheathing
Maintain 1” Min. Above
Concrete
2 Layers WRB
Foundation Weep Screed
Cement Backer Board
LATICRETE® Hydro Ban™
LATICRETE Masonry
Pointing Mortar
LATICRETE Masonry
Veneer Mortar
Adhered Masonry Veneer
Foundation Weep Screed
Bedding Seal Under
Corrosion Resistant
Flashing

Note: A minimum 2” (50mm) clearance to be maintained at all sides of the base. All column materials to be suitable for exterior use as per sheathing manufacturer AND installation material manufacturer. Do not extend flashing past front edge of adhered masonry veneer.
Note: Adhered masonry veneer may overlap the raised concrete pad, but a minimum clearance of 2” (50mm) should be maintained at all sides of the base. Do not extend flashing past front edge of adhered masonry veneer.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

**NOTE:** For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.

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If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

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Note: Service box to be installed per electrical component manufacturer’s requirements and all electrical codes. Plaster rings should be affixed over the service box to bring the face of the box flush with the masonry veneer.
Adhered Masonry Veneer
LATICRETE® Masonry Veneer Mortar
LATICRETE® Hydro Ban™
LATICRETE® Masonry Pointing Mortar
Cement Backer Board
Exterior Hose Bibb
Bed Exterior Flange
In LATICRETE Latasil
2 Layers WRB
Sheathing
Wall System

INTERIOR

EXTERIOR

Note: Ensure that all covers, flanges and escutcheons are properly bedded in sealant before fastening them to wall.
If Exterior, Vapor Barrier/Water Resistant Barrier, Waterproofing Membrane, Flashing and Insulation—Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

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**Interior**

Note: Ensure that all covers, flanges and escutcheons are properly bedded in sealant before fastening them to wall.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.

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If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

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If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

Note: Be sure to lap water-resistive barrier over weep screed and floor framing to manage water intrusion. Provide 1" (25mm) gap between adhered masonry veneer and decking for drainage.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation — Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.

NOTE: Self Adhering Flashing should lap top of wall. A sloping shim should top the wall under the SAF and cement backer board.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

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If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.

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Note: A 4" (100mm) minimum gap is required at the base of the wall for proper drainage and to avoid water intrusion into the assembly.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.
Exterior Cladding (Siding Shown)  
**NOTE:** Other Finishes May Be Used  

1. **(1) Layers WRB** – lap over back leg of flashing  

2. **Extend WRB Form Wall Below**  
   6” Min. Above Cladding Transition  

3. **Corrosion Resistant Flashing**  
   With Drip Edge  

4. **Bedding Seal Under**  
   Corrosion Resistant Flashing  

5. **Metal Lath, 3.4# Galvanized Diamond Wire**  

6. **Masonry Veneer Support Angle**  

7. **Adhered Masonry Veneer**  

8. **LATICRETE® Masonry Veneer Mortar**  

9. **LATICRETE Hydro Bar®**  

10. **LATICRETE 3701 Fortified Mortar Bed**  

11. **LATICRETE Masonry Pointing Mortar**  

12. **(2) Layers WRB**  

13. **Sheathing**  

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**Note:** Flashing to be installed prior to adhered masonry veneer. Water resistive barrier laps over back leg of flashing for positive drainage. Verify installation requirements with adhered masonry veneer manufacturer.
Batt Insulation
Sheathing
(2) Layers WRB
Metal Lath, 3.4# Galvanized Diamond Wire (Wrap Lath Around Corner To Next Framing Member And Lap Lath At Framing Member)
LATICRETE® 3701 Fortified Mortar Bed
LATICRETE Masonry Veneer Mortar
LATICRETE Masonry Pointing Mortar
LATICRETE Hydro Ban™
Adhered Masonry Veneer
Double Wrap WRB Around Corner 16” Min.—Both Sides of Wall System At Corner
Backer Rod
LATICRETE Latasil

Note: Randomly alternate end returns above and below at the corner. Lap lath around the corner to the next framing member.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation — Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

**Note:** Randomly alternate ends above and below to interweave the corner. Double wrap water resistive barrier around both sides of the corner. Lap lath to the framing at least 16” to the next framing member.
Blocking For Lath Edge And Corrosion Resistant Flashing
Exterior Finish (Siding Shown)

(2) Layers WRB
Strip Of SAF—Lap Over Corrosion Resistant Flashing
Corrosion Resistant Trim Flashing With 3” Min. Vertical Leg
Provide End Dam At Flashing Termination

Horizontal Wood Trim (Primed)
Corrosion Resistant Flashing
Provide End Dam At Flashing Termination
Bedding Seal Under Corrosion Resistant Flashing

Casing Bead Over WRB
Adhered Masonry Veneer
LATICRETE® Masonry Veneer Mortar
LATICRETE Hydro Ban™
LATICRETE 3701 Fortified Mortar Bed
LATICRETE Masonry Pointing Mortar

Metal Lath – 3.4# Galvanized Diamond Wire
2 Layers WRB
Sheathing

Note: Self-adhered flashing (SAF) to be lapped shingle-fashion over corrosion resistant flashing.
SAF Behind Trim—Extend Under Adjacent Finish As Required

Sheathing

Adjacent Finish Varies

Backer Rod And LATICRETE® Latasil

Casing Bead – 6” (150mm) Min. Strip Of SAF Over Casing Bead

2 Layers WRB – Lap Over SAF And Casing Bead

Lath

LATICRETE® 3701 Fortified Mortar Bed

LATICRETE Hydro Ban™

LATICRETE Masonry Pointing Mortar

LATICRETE Masonry Veneer Mortar

Adhered Masonry Veneer

Note: Self-adhered flashing (SAF) to extend under the adjacent finishes. A 3/8” (9mm) minimum gap to be used between finishes. SAF to overlap casing bead 6” (150mm) minimum.
Note: Water-resistive barrier to be in place prior to soffit installation followed by adhered masonry veneer.
Use Wood Stop or IX Filler Behind Fascia
OPTION: Casing Bead Over SAF
1” min. lap over Top of Adhered Concrete Masonry Veneer

Adhered Masonry Veneer
LATICRETE® Masonry Veneer Mortar
LATICRETE Masonry Pointing Mortar
LATICRETE 3701 Fortified Mortar Bed
LATICRETE Hydro Ban™
Metal Lath – 3.4# Galvanized Diamond Wire
2 Layers WRB
Sheathing

Note: Water-resistive barrier should be in place prior to soffit installation followed by adhered masonry veneer.
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Scale: NTS
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

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Casing Bead
SAF OR WRB Strip Behind Trim–Lap Over 2 Layers WRB at Wall (4” [100mm] lap Over WRB
LATICRETE 3701 Fortified Mortar Bed
Adhered Masonry Veneer
LATICRETE® Masonry Pointing Mortar
LATICRETE Masonry Veneer Mortar
LATICRETE Hydro Ban™
Metal Lath; 3.4# Galvanized Diamond Wire
2 Layers WRB

Sheathing

Note: Lap self-adhered flashing a minimum of 4” (100mm) over WRB.
SAF OR WRB Strip Behind Trim—Lap Over 2 Layers WRB at Wall (4” [100mm] Lap Over WRB

Backer Rod and LATICRETE Latasil

Lap Over Top of Adhered Masonry Veneer

Casing Bead over (2) Layers WRY OPTION: Use Wood Stop or IX Filler Behind Sub Fascia

Adhered Masonry Veneer

LATICRETE Masonry Pointing Mortar

LATICRETE Masonry Veneer Mortar

LATICRETE Hydro Ban™

LATICRETE 3701 Fortified Mortar Bed

Metal Lath, 3.4# Galvanized Diamond

2 Layers WRB

Sheathing

Note: Lap self-adhered flashing a minimum of 4” (100mm) over WRB.
Adhered Masonry Veneer
LATICRETE Masonry Pointing Mortar
LATICRETE Masonry Veneer Mortar
LATICRETE Hydro Ban
LATICRETE 3701 Fortified Mortar Bed
Metal Lath, 3.4# Galvanized Diamond Wire
2 Layers WRB Lap Over Step Flashing and Weep Screed
Blocking for Lath Edge and Corrosion Resistant Flashing
Corrosion Resistant Step Flashing at Rake per Roof Manufacturer’s Recommendation
Weep Screed – Lap Over Corrosion Resistant Step Flashing 2” min.

Roof Type May Vary – Composition Shingle Roof Shown
Roof Underlayment—turn up at Side Wall

Note: Water-resistive barrier to lap over step flashing and weep screed.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards.

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Adhered Masonry Veneer
LATICRETE Masonry Veneer Mortar
LATICRETE® Hydro Ban™
LATICRETE Masonry Pointing Mortar
LATICRETE 3701 Fortified Mortar Bed
Metal Lath, 3.4# Galvanized Diamond Wire
2 Layers WRB Lap over Step Flashing and Weep Screed
Weep Screed
Blocking for Lath Edge and Corrosion Resistant Flashing
Corrosion Resistant Counterflushing
Corrosion Resistant Step Flashing at Rake per Roof Manufacturer’s Recommendation
Roof Type May Vary–Composition Shingle Roof Shown

Roof Underlayment–turn up at Side Wall

IX Filler – Slope Top
Adhered Masonry Veneer
LATICRETE® Masonry Veneer Mortar
LATICRETE® Hydro Ban™
LATICRETE 3701 Fortified Mortar Bed
Metal Lath, 3.4# Galvanized Diamond Wire
2 Layers WRB Lap over Weep Screed
LATICRETE® Masonry Veneer Mortar

Blocking for Lath Edge and Corrosion Resistant Flashing
Corrosion Resistant side Wall Flashing Per Roof Manufacturer’s Recommendation
Weep Screed—Lap Over Corrosion Resistant Rake Wall Flashing 2” min.

Roof Type May Vary
Roof Underlayment—Turn up at Side Wall

Note: Water—resistive barrier to lap over step flashing and weep screed.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.
Window Frame (Profile May Vary) — Refer to Window Mfr’s. Details for Installation and Flashing

Bedding Sealant Under Window Fin.

Backer Rod and Sealant (3/8” [9mm] min. width)

Casing Bead

SAF Sill Flashing Under Window Fin.

Lap over WRB 4” min.

Adhered Masonry Veneer With Sloped Top

LATICRETE® Masonry Veneer Mortar

LATICRETE® Masonry Pointing Mortar

LATICRETE® Hydro Ban™

LATICRETE® 3701 Fortified Mortar Bed

Metal Lath, 3.4# Galvanized Diamond Wire

WRB UNDER SILL SAF— Sheathing

Note: Rough openings must be properly flashed prior to window installation. Sill flashing to drain between layers of water–resistive barrier to exterior of adhered masonry veneer. Tuck water–resistive barrier under pan flashing at sill.
Window Frame (Profile May Vary)— Refer to Window Mfr's. Details for Installation and Flashing
9” SAF Jamb Flashing Under Window Fin
Bedding Sealant Under Window Fin
Sheathing
2 Layers WRB Seal Edge to Fin
Metal Lath, 3.4# Galvanized Diamond Wire
LATICRETE® 3701 Fortified Mortar Bed
LATICRETE Hydro Ban™
LATICRETE Masonry Pointing Mortar
LATICRETE Masonry Veneer Mortar
Adhered Masonry Veneer
Bedding Sealant Under WRB Lapped Over Casing Bead—Casing Bead (OPTION: Lap SAF Over Leg)
Backer Rod and LATICRETE Latasil (½” [9mm] min. width)

Note: Rough openings must be properly flashed prior to window installation. Flashing should drain between layers of water–resistive barrier. Extend layers of flashing to extreme of adhered masonry veneer. Tuck water–resistive barrier under paper at sill.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation — Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.

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Scale: NTS
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation — Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.

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Typical Corrosion Resistant Cricket Per Roof Manufacturer’s Recommendations

2 Layers WRB
Weep Screed
Corrosion Resistant Counterflashing
Corrosion Resistant Cricket

Enlargement

2 Layers WRB
Metal Lath, 3.4# Galvanized Diamond Wire
LATICRETE® 3701 Fortified Mortar Bed
LATICRETE Hydro Ban
LATICRETE Masonry Pointing Mortar
LATICRETE Masonry Veneer Mortar
Adhered Masonry Veneer Over Framed Wall Or Chimney Chase

Composition Shingle Roofing
(Other Roofing Similar)

Underlayment Over Roof Substrate
Lap Over Cricket Flange

Corrosion Resistant Cricket—Provide Sheathing And Framing Support As Needed Extend Flashing 2” Beyond Chimney Chase To Accommodate Installation of Veneer (See Cricket Drawing Above)
Solid Substrate –
Slope 1/4:12, Min.
Roofing Underlayment
1X or 2X Blocking As Required
Metal Chimney Cap (Per Plan)

9” Wide SAF Or WRB Strip
Lap Over WRB At Wall

2X Trim
3/4” Stucco Key
Option Use Wood Stop
Or Casing Bead Over SAF

Dimension To Clear
Top Of A.M.V.

Adhered Masonry Veneer
LATICRETE® Masonry Pointing
Mortar
LATICRETE Masonry Veneer
Mortar
LATICRETE Hydro Ban™
LATICRETE 3701 Fortified
Mortar Bed
Metal Lath, 3.4# Galvanized
Diamond Wire
2 Layers WRB
Sheathing

NOTE: Maintain Minimum Clearance Of Combustible Materials Per Chimney Manufacturer’s Recommendations
Note: A minimum 2” (50mm) clearance to be maintained at all sides of the base. All column materials to be suitable for exterior use as per sheathing manufacturer AND installation material manufacturer. Do not extend flashing past edge of adhered masonry veneer.
Wall System
Exterior Grade Sheathing
Maintain 2” (50mm) Min. Above Concrete
2 Layers WRB
LATICRETE Masonry Pointing Mortar
Metal Lath, 3.4# Galvanized Diamond Wire
LATICRETE® 3701 Fortified Mortar Bed
LATICRETE Hydro Ban™
LATICRETE Masonry Veneer Mortar
Adhered Masonry Veneer
Foundation Weep Screed
Bedding Seal Under Corrosion Resistant Flashing
Raised Concrete Pad

Note: Adhered masonry veneer may overlap the raised concrete pad, but a minimum clearance of 2” (50mm) should be maintained at all sides of the base. Do not extend flashing past edge of adhered masonry veneer.
Note: Service box to be installed per electrical component manufacturer’s requirements and all electrical codes. Plaster rings should be affixed over the service box to bring the face of the box flush with the masonry veneer.
Adhered Masonry Veneer
LATICRETE® Masonry Veneer Mortar
LATICRETE® Hydro Ban™
LATICRETE® Masonry Pointing Mortar
LATICRETE 3701 Fortified Mortar Bed

Exterior Hose Bibb
Bed Exterior Flange
In LATICRETE Latasil
Metal Lath, 3.4# Galvanized Diamond Wire
2 Layers WRB
Sheathing
Wall System

INTERIOR

EXTERIOR

Note: Ensure that all covers, flanges and escutcheons are properly bedded in sealant before fastening them to wall.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.

INTERIOR

Note: Ensure that all covers, flanges and escutcheons are properly bedded in sealant before fastening them to wall.
If Exterior, Vapor Barrier/Water Resistive Barrier, Waterproofing Membrane, Flashing and Insulation – Type/Location to be Determined by Design Professional. See full MVIS Specification for Additional Design Considerations.

NOTE: For complete application information and limitations consult related Product Data Sheets and Execution Statements related to this detail, and applicable industry standards. As a professional courtesy, LATICRETE offers technical services free of charge. The user maintains all responsibility for verifying the applicability and suitability of the technical service or information provided.

Revision Date: 03/10
Scale: NTS

1" MIN

Self Adhered Flashing Or Weep Screed

Floor Framing

Deck Framing

Sheathing
2 Layers WRB
Metal Lath, 3.4# Galvanized Diamond Wire
LATICRETE® 3701 Fortified Mortar Bed
LATICRETE Hydro Ban™
LATICRETE Masonry Veneer Mortar
LATICRETE Masonry Pointing Mortar
Adhered Masonry Veneer

Note: Be sure to lap water-resistive barrier over weep screed and floor framing to manage water intrusion. Provide 1" (25mm) gap between adhered masonry veneer and decking for drainage.
Adhered Masonry Veneer Cap
In Mortar Setting Bed
Lath Over Top Of Wall Lap Over Wall (see note)
Sloping Solid Shim

SAF Over Top Of Wall Construction Lap Over WRB
Adhered Masonry Veneer
LATICRETE Masonry Pointing Mortar
LATICRETE® Masonry Veneer Mortar
LATICRETE Hydro Ban™
LATICRETE 3701 Fortified Mortar Bed
Metal Lath, 3.4# Galvanized Diamond Wire
2 Layers WRB
Sheathing
Wall System

Foundation Weep Screed
Bedding Seal Under Corrosion Resistant Flashing

NOTE: Lath should lap over the top of the wall 4” (100mm) but be fastened only to vertical wall faces. Self Adhering Flashing should lap top of wall. A sloping shim should top the wall under the SAF and lath.
PART 1 – GENERAL

1.1 Summary
A. Scope of work — Provide manufactured adhered veneer (units size thickness ranging from a minimum 1/4" [6 mm] up to a maximum 2-5/8" [65mm] according to 2009 IBC – Chapter 14 Exterior Walls or applicable local building codes for thin adhered masonry veneer), veneer installation materials and accessories as indicated on drawings, as specified herein, and as needed for complete and proper installation.

B. Related Documents — provisions within General and Supplementary General Conditions of the Contract, Division 1 — General Requirements, and the Drawings apply to this Section.

1.2 Section Includes
A. Manufactured Adhered Veneer Units and Trim Units
B. Installation Products; adhesives, mortars, grouts and sealants
C. Waterproofing membranes

NOTE TO SPECIFIER: Edit for applicable procedures and materials.

1.3 Products Furnished But Not Installed Under This Section
NOTE TO SPECIFIER: Edit for applicable products.

1.4 Products Installed But Not Furnished Under This Section
NOTE TO SPECIFIER: Edit for applicable products.

1.5 Environmental Performance Requirements
A. Environmental Performance Criteria: The following criteria are required for products included in this section.
Refer to Division 1 for additional requirements:
1. Products manufactured regionally within a 500 mile radius of the Project site;
2. Adhesive products must meet or exceed the VOC limits of South Coast Air Quality Management District Rule #1168 and Bay Area Resources Board Reg. 8, Rule 51.

1.6 Related Sections
A. Section 04812 Thin Veneer Brick
B. Section 04852 Thin Veneer Stone
C. Section 04900 Masonry Restoration
D. Section 04730 Simulated Stone Veneer
E. Section 03300 Cast-in-Place Concrete
F. Section 03305 Concrete Curing
G. Section 03410 Structural Precast Concrete
H. Section 03532 Concrete Floor Topping
I. Section 04200 Unit Masonry (CMU wall substrates)
J. Section 04300 Stone
K. Section 06100 Rough Carpentry (plywood sub-floors)
L. Section 07110 Membrane Waterproofing
M. Section 07920 Elastomeric Joint Sealants
N. Section 09250 Gypsum Board Assemblies
O. Section 09385 Stone Tile
P. Section 10800 Washroom Accessories
Q. Section 15440 Plumbing Fixtures

NOTE TO SPECIFIER: Above are examples of typical broad scope and narrow scope sections related to adhered veneer installations. Edit for applicable related sections.

1.7 Allowances
NOTE TO SPECIFIER: Edit for detail of applicable ALLOWANCES; coordinate with Section 01020 Allowances. Allowances in the form of unit pricing are sometimes used when the scope of the adhered veneer work at time of bid is undetermined.

1.8 Alternates
NOTE TO SPECIFIER: Edit for applicable ALTERNATES; Alternates may be used to evaluate varying levels of performance of setting systems or to assist in the selection of the tile by economy.

1.9 Reference Standards
A. American Iron and Steel Institute (AISI) Specification for the Design of Cold-Formed Steel Structural Members
B. American National Standards Institute (ANSI) A137.1 American National Standard Specifications For Ceramic Tile
C. American National Standards Institute (ANSI) A108.01 - A108.17 American National Standard Specifications For The Installation Of Ceramic Tile
E. American National Standards Institute (ANSI) A136.1 American National Standard Specifications For The Installation Of Ceramic Tile
F. American Plywood Association (APA) Y510T Plywood Design Specifications
G. American Society For Testing And Materials (ASTM) A82 Standard Specification for Steel Wire, Plain, for Concrete Reinforcement
NOTE TO SPECIFIER: The above systems are example descriptions; edit for additional applicable systems.

1.10 System Description

A. Adhered Masonry Veneer installed over concrete masonry unit substrate with waterproofing membrane, latex portland cement mortar and latex portland cement pointing mortar.

B. Adhered Masonry Veneer installed over steel framing, exterior rated sheathing, water resistive barrier, wire lath, floated latex Portland cement mortar, waterproofing membrane, latex Portland cement mortar and latex Portland cement pointing mortar.

C. Adhered Masonry Veneer installed over steel framing, exterior rated sheathing, cement backer board, waterproofing membrane, latex Portland cement mortar and latex Portland cement pointing mortar.

NOTE TO SPECIFIER: The above systems are example descriptions; edit for additional applicable systems.

1.11 Submittals

NOTE TO SPECIFIER: Edit for applicable requirements — The LATICRETE On-Line LEED Specification tool is available to calculate contributing points for projects at www.laticrete.com/contractors/green_leed/leed_project_certification_assistant.aspx.
A. Submittal Requirements: Submit the following “Required LEED Criteria” certification items as listed below. Refer to Division 1 for additional requirements:

1. A completed LEED Environmental Building Materials Certification Form. Information to be supplied generally includes:
   a. Manufacturing plant locations for adhered masonry veneer installation products.
   b. LEED Credits as listed in Part 1.4B “LEED Credit Submittals”
2. GREENGUARD Environmental Institute certificates or GREENGUARD Environmental Institute Schools & Children certificates provided by the tile installation materials manufacturer on GREENGUARD letterhead stating “This project has been GREENGUARD Certified® by the GREENGUARD Environmental Institute under the GREENGUARD Standard for Low Emitting Products” for each tile installation product used to verify Low VOC product information.
3. Contractor’s certification of LEED Compliance: Submit Contractor’s certification verifying the installation of specified LEED Compliant products.
4. Product Cut Sheets for all materials that meet the LEED performance criteria. Submit Product Cut Sheets with Contractor or Subcontractor’s stamp, as confirmation that submitted products were installed on Project.
5. Material Safety Data Sheets for all applicable products.

B. LEED Credit Submittals for the following:

   a. Include statement indicating cost and distance from manufacturer to Project for each regionally manufactured product.
   a. Include statement indicating cost and distance from manufacturer to Project for each regionally manufactured product.
B. Installation System Manufacturer (single source responsibility): Company specializing in adhesives, mortars, grouts and other installation materials with ten (10) years minimum experience and ISO 9001 certification. Obtain installation materials from single source manufacturer to insure consistent quality and full compatibility.

C. Submit laboratory confirmation of adhesives, mortars, grouts and other installation materials:
1. Identify proper usage of specified materials using positive analytical method.
2. Identify compatibility of specified materials using positive analytical method.
3. Identify proper color matching of specified materials using a positive analytical method.

D. Installer qualifications: company specializing in installation of adhered masonry veneer and trim units with five (5) years documented experience with installations of similar scope, materials and design.

1.13 Mock-Ups
A. Provide mock-up of each type/style/finish/size/color of adhered masonry veneer and trim unit along with respective installation adhesives, mortars, grouts and other installation materials, under provisions of Section (01400) (01405).

1.14 Pre-Installation Conference
Pre-installation conference: At least three weeks prior to commencing the work attend a meeting at the job site to discuss conformance with requirements of specification and job site conditions. Representatives of owner, architect, general contractor, adhered masonry veneer subcontractor, adhered masonry veneer manufacturer, Installation System Manufacturer and any other parties who are involved in the scope of this installation must attend the meeting.

1.15 Delivery, Storage and Handling
A. Acceptance at Site: deliver and store packaged materials in original containers with seals unbroken and labels, including grade seal, intact until time of use, in accordance with manufacturer’s instructions.
B. Store adhered masonry veneer and installation system materials in a dry location; handle in a manner to prevent chipping, breakage, and contamination.
C. Protect latex additives, waterproofing membranes, epoxy adhesives and sealants from freezing or overheating in accordance with manufacturer’s instructions; store at room temperature when possible.
D. Store portland cement mortars and grouts in a dry location.

1.16 Project/Site Conditions
A. Provide ventilation and protection of environment as recommended by manufacturer.
B. Prevent carbon dioxide damage to adhered masonry veneer, trim, as well as adhesives, mortars, grouts and other installation materials, by venting temporary heaters to the exterior.
C. Maintain ambient temperatures not less than 50ºF (10ºC) or more than 100ºF (38°C) during installation and for a minimum of seven (7) days after completion. Setting of portland cement is retarded by low temperatures. Protect work for extended period of time and from damage by other trades. Installation with latex portland cement mortars requires substrate, ambient and material temperatures at least 37ºF (3ºC). There should be no ice in slab. Freezing after installation will not damage latex portland cement mortars. Protect portland cement based mortars and grouts from direct sunlight, radiant heat, forced ventilation (heat and cold) and drafts until cured to prevent premature evaporation of moisture. Epoxy mortars and grouts require surface temperatures between 60ºF (16ºC) and 90ºF (32ºC) at time of installation. Waterproofing Membranes require surface temperatures between 50ºF (10ºC) and 90ºF (32ºC). It is the General Contractor’s responsibility to maintain temperature control.

1.17 Sequencing and Scheduling
A. Coordinate installation of adhered masonry veneer work with related work.
B. Proceed with adhered masonry veneer work only after curbs, vents, drains, piping, and other projections through substrate have been installed and when substrate construction and framing of openings have been completed.

NOTES FOR SPECIFIER: Edit for project specific sequence and scheduling.

1.18 Warranty
The Contractor warrants the work of this Section to be in accordance with the Contract Documents and free from faults and defects in materials and workmanship for a period of 25 years. The manufacturer of adhesives, mortars, grouts and other installation materials shall provide a written twenty five (25) year warranty, which covers materials and labor — reference LATICRETE Warranty Data Sheet 025.0 for complete details and requirements. For exterior facades over steel or wood framing, the manufacturer of adhesives, mortars, grouts and other installation materials shall provide a written fifteen (15) years warranty, – reference LATICRETE Warranty Data Sheet 230.15MVIS for complete details and requirements.

1.19 Maintenance
Submit maintenance data under provisions of Section 01730. Include cleaning methods, cleaning solutions recommended, stain removal methods, as well as polishes and waxes recommended.

1.20 Extra Materials Stock
Upon completion of the work of this Section, deliver to the Owner 2% minimum additional adhered masonry veneer and trim shape of each type, color, pattern and size used in the Work, as well as extra stock of adhesives, mortars, grouts and other installation materials for the Owner’s use in replacement and maintenance. Extra stock is to be from same production run or batch as original adhered masonry veneer and installation materials.

PART 2 – PRODUCTS

2.1 Adhered Masonry Veneer Manufacturers
Subject to compliance with paragraphs 1.12 and performance requirements, provide products by one of the following manufacturers:

NOTE TO SPECIFIER: Provide list of acceptable adhered masonry veneer manufacturers.
2.2 Adhered Masonry Veneer Materials

NOTE TO SPECIFIER: Edit for each adhered masonry veneer type.

A. Type: 
B. Grade: 
C. Size: 
D. Edge: 
E. Finish: 
F. Color: 
G. Special shapes: 
H. Location: 

2.3 Adhered Masonry Veneer Installation Materials

Manufacturer
A. LATICRETE International, Inc., 
1 LATICRETE Park North, 
Bethany, CT 06524-3423 USA 
Phone 800.243.4788, +1.203.393.0010 
support@laticrete.com, 
www.laticrete.com;  www.laticrete.com/green

NOTE TO SPECIFIER: Use either the following performance specification or the proprietary specification.

2.4. Performance Specification – Adhered Masonry Veneer Installation Accessories

A. Waterproofing Membrane to be thin, cold applied, single component liquid and load bearing. Waterproofing Membrane to be non-toxic, non-flammable, and non-hazardous during storage, mixing, application and when cured:

1. Hydrostatic Test (ASTM D4068): Pass
2. Elongation at break (ASTM D751): 20 – 30%
3. System Crack Resistance (ANSI A118.12): Pass (High)
4. 7 day Tensile Strength (ANSI A118.10): >265 psi (1.8 MPa)
5. 7 day Shear Bond Strength (ANSI A118.10): >200 psi (1.4 MPa)
6. 28 Day Shear Bond Strength (ANSI A118.4): >214 psi (1.48 – 2.4 MPa)
7. Service Rating (TCA/ASTM C627): Extra Heavy
8. Total VOC Content: < 0.05 mg/m³

B. Epoxy Waterproofing Flashing Mortar to be 3 component epoxy, trowel applied specifically designed to be used under adhered masonry veneer, stone or thin brick:

1. Breaking Strength (ANSI A118.10): 450 — 530 psi (3.1 — 3.6 MPa)
2. Waterproofness (ANSI A118.10): No Water penetration
3. 7 day Shear Bond Strength (ANSI A118.10): 110 — 150 psi (0.8 — 1 MPa)
4. 28 Day Shear Bond Strength (ANSI A118.10): 90 — 120 psi (0.6 — 0.83 MPa)
5. 12 Week Shear Bond Strength (ANSI A118.10): 110 — 130 psi (0.8 — 0.9 MPa)
6. Total VOC Content: < 0.05 mg/m³
7. Total VOC Content: < 0.05 mg/m³

C. Water Resilient Barrier (2 layers): 15 pound asphalt saturated, non-perforated roofing felt complying with ASTM D226, 15 pound coal tar saturated, non-perforated roofing felt complying with ASTM D227 or 4.0 mils (0.1 mm) thick polyethylene plastic film complying with ASTM D4397 or other as required by local building codes and as detailed by design professional.

D. Cementitious backer board units: size, thickness and installation as specified by cement backer board manufacturer, complying with ANSI A118.9.

NOTE TO SPECIFIER: Edit applicable adhered masonry veneer installation accessories.

2.5 Performance Specification – Adhered Masonry Veneer Installation Materials

A. Latex Portland Cement Mortar for leveling beds and scratch/plaster coats to be weather, frost, shock resistant and meet the following physical requirements:

1. Compressive Strength (ANSI A118.4 Modified): >4000 psi (27.6 MPa)
2. Water Absorption (ANSI A118.6): < 5%
3. Service Rating (TCA/ASTM C627): Extra Heavy
4. Smoke and Flame Contribution (ASTM E84 Modified): 0
5. Total VOC Content: < 0.05 mg/m³

B. Epoxy Adhesive to be chemical resistant 100% solids epoxy with high temperature resistance and meet the following minimum physical requirements:

1. Compressive strength (ANSI A118.3): >5000 psi (34.4 MPa)
2. Shear Bond Strength (ANSI A118.3): >1250 psi (8.6 MPa)
3. Thermal Shock Resistance (ANSI A118.3): >600 psi (4.1 MPa)
4. Tensile Strength (ANSI A118.3): >1400 psi (9.6 MPa)
5. Shrinkage (ANSI A118.3): 0 — 0.1%
6. Total VOC Content: < 0.05 mg/m³

C. Latex Portland Cement Mortar for Adhered Masonry Veneer to be weather, frost, shock resistant, non-flammable and meet the following physical requirements:

1. Compressive strength (ANSI A118.3): >5000 psi (34.4 MPa)
2. Bond strength (ANSI A118.4): >450 psi (3.1 MPa)
3. Smoke and Flame Contribution (ASTM E84 Modified): 0
4. Total VOC Content: < 0.05 mg/m³

D. Latex Portland Cement Pointing Mortar to be weather, frost and shock resistant, as well as meet the following physical requirements:

1. Compressive Strength (ANSI A118.6): >4100 psi (28.3 MPa)
2. Flexural Strength (ANSI A118.6): >920 psi (6.3 MPa)
3. Total VOC Content: < 0.00 mg/m³
E. Expansion and Control Joint Sealant to be a one component, neutral cure, exterior grade silicone sealant and meet the following requirements:

1. Tensile Strength (ASTM C794): 280 psi (1.9 MPa)
2. Hardness (ASTM D751; Shore A): 25 (colored sealant) / 15 (clear sealant)
3. Weather Resistance (QUV Weather-ometer): 10000 hours (no change)

F. Spot Bonding Epoxy Adhesive for installing adhered masonry veneer, brick and stone over vertical and overhead surfaces shall be high strength, high temperature resistant, non-sag and shall meet the following physical requirements:

1. Thermal Shock Resistance (ANSI A118.3): >1000 psi (6.9 MPa)
2. Water Absorption (ANSI A118.3): 0.1 %
3. Compressive Strength (ANSI A118.3): >8300 psi (57.2 MPa)
4. Shear Bond Strength (ANSI A118.3 Modified): >730 psi (5 MPa)

NOTE TO SPECIFIER: Edit applicable adhered masonry veneer installation materials.

2.6 Proprietary Specification – Adhered Masonry Veneer Installation Accessories

Installation accessories as manufactured by LATICRETE International, Inc., 1 LATICRETE Park North, Bethany, CT 06524-3423 USA.

A. Waterproofing Membrane: LATICRETE® Hydro Ban™ as manufactured by LATICRETE International, Inc.
B. Epoxy Waterproofing Flashing Mortar: LATAPOXY® Waterproof Flashing Mortar as manufactured by LATICRETE International, Inc.

NOTE TO SPECIFIER: Edit applicable adhered masonry veneer installation accessories.

2.7 Proprietary Specification – Adhered Masonry Veneer Installation Materials

Installation materials as manufactured by LATICRETE International, Inc., 1 LATICRETE Park North, Bethany, CT 06524-3423 USA.

D. Expansion and Control Joint Sealant: LATICRETE® Latasil™ as manufactured by LATICRETE International, Inc.

E. Spot Bonding Epoxy Adhesive: LATAPOXY 310 Stone Adhesive (Standard or Rapid Grade) as manufactured by LATICRETE International, Inc.

** GREENGUARD Indoor Air Quality Certified® Product

PART 3 – EXECUTION

3.1 Substrate Examination

A. Verify that surfaces to be covered with adhered masonry veneer, brick, stone, trim or waterproofing are:

1. Sound, rigid and conform to good design/engineering practices;
   a. Systems, including the framing system (including lateral bracing, purlins, batters and other framing member stiffeners), flashings, water resistive barriers, air barriers, exterior rated sheathing panels, cement backer unit panels, wire lath over which adhered masonry veneer or stone will be installed shall be in conformance with the International Residential Code (IRC) for residential applications, the International Building Code (IBC) for commercial applications, and applicable building codes. The project design should include the intended use and necessary allowances for the expected live load, concentrated load, impact load, and dead load including the weight of the finish and installation materials while maintaining the maximum allowable deflection standard of L/600 under total anticipated load;
2. Clean and free of dust, dirt, oil, grease, sealers, curing compounds, laitance, efflorescence, form oil, loose plaster, paint, and scale;
3. Adhered Masonry Veneer installations have a specified subsurface tolerance, for instance 1/4" in 10' (6 mm in 3 m) and 1/16" in 1' (1.5 mm in 300 mm), to conform with the ANSI specifications. Because thin-bed mortars are not intended to be used in truing or leveling the work of others, the subsurface typically should not vary by more than 1/16" over 1' (1.5 mm over 300 mm), nor more than 1/32" (0.8 mm) between adjoining edges where applicable (e.g. between sheets of cement backer board or between adjacent concrete masonry units). Should the architect/designer require a more stringent tolerance (e.g. 1/8" in 10' [3 mm in 300 mm]), the subsurface specification must reflect that tolerance, or the adhered masonry veneer specification must include a specific and separate requirement to bring the 1/4" (6 mm) subsurface tolerance into compliance with the 1/8" (6 mm) tolerance desired;
4. Not leveled with gypsum or asphalt based compounds;
6. Concrete surfaces shall also be:
   1. Cured a minimum of 28 days at 70°F (21°C), including an initial seven (7) day period of wet curing;
Main Application — Allow any pre-treated areas to dry to the touch. Apply a liberal coat* of LATICRETE Hydro Ban with a paint brush or heavy napped roller over substrate including pre-treated areas and allow to dry to the touch. Install another liberal coat* of LATICRETE Hydro Ban over the first coat. Let the top coat of LATICRETE Hydro Ban dry to the touch approximately 1 – 2 hours at 70°F (21°C) and 50% RH. When the top coat has dried to the touch inspect the surface for pinholes, voids, thin spots or other defects. LATICRETE Hydro Ban will dry to an olive green color when fully cured. Use additional LATICRETE Hydro Ban to seal any defects.

Treat Penetrations and Flashings — Allow for a minimum 1/8" (3 mm) space between drains, pipes, lights, or other penetrations and surrounding adhered masonry veneer, stone or thin brick. Flash LATAPOXY Waterproof Flashing Mortar onto and around penetration openings to create a waterproof seal. Bring LATAPOXY Waterproof Flashing Mortar up to the finish level of the adhered masonry veneer, thin brick or stone finish. When LATAPOXY Waterproof Flashing Mortar has dried to the touch and the finishes have been installed, seal the gap around the penetration with LATICRETE Latasil™.

Movement Joints — Apply a liberal coat* of LATICRETE Hydro Ban, approximately 8" (200 mm) wide over the areas. Then embed and loop the 6" (150 mm) wide LATICRETE Waterproofing/Anti-Fracture Fabric and allow the LATICRETE Hydro Ban liquid to bleed through. Immediately apply a second coat of LATICRETE Hydro Ban.

Protection — Provide protection for newly installed membrane, even if covered with a thin-bed adhered masonry veneer, stone or thin brick installation against exposure to rain or other water for a minimum of 2 hours at 70°F (21°C) and 50% RH. For temperatures between 45°F and 69°F (7°C to 21°C) allow a minimum 24 hour cure period.

Flood Testing — Allow membrane to cure fully before flood testing, typically a minimum 2 hours at 70°F (21°C) and 50% RH. Cold conditions will require a longer curing time. For temperatures between 50°F and 69°F (10°C to 21°C) allow a minimum 24 hour cure period prior to flood testing.

Use the following LATICRETE® System Materials:
LATICRETE® Hydro Ban™

References
LATICRETE Detail Drawings: WP300, WP301, WP302, WP303
LATICRETE Data Sheets: 663.0, 663.5
LATICRETE MSDS: Hydro Ban, Fabric
GREENGUARD Certificate: Hydro Ban
LATICRETE Technical Data Sheets: 188, 189, 203
3.4 Installation – Adhered Masonry Veneer, Thin Brick and Stone

A. General: Install in accordance with current versions of American National Standards Institute, Inc. (ANSI) “A108 American National Standard Specification for Installation of Ceramic Tile” and TCNA “Handbook for Ceramic Tile Installation.” Cut and fit adhered masonry veneer, thin brick or stone neatly around corners, fittings, and obstructions. Perimeter pieces to be minimum half unit, brick or stone. Chipped, cracked, split pieces and edges are not acceptable. Make joints even, straight, plumb and of uniform width to tolerance +/-1/16” over 8’ (1.5 mm in 24 m). Install divider strips at junction of flooring and dissimilar materials.

B. Pre-Float Method: Over clean, dimensionally stable and sound concrete or masonry substrates, apply thick-bed mortar as scratch/leveling coat in compliance with current revision of A108.1A (1.0, 1.4 and 5.1). Float surface of scratch/leveling coat plumb, true and allow mortar to set until firm. For installation of adhered masonry veneer, thin brick or stone, follow Thin Bed Method (§ 3.4 D).

Use the following LATICRETE System Materials
LATICRETE 3701 Fortified Mortar Bed

References
LATICRETE Data Sheets: 100.0
LATICRETE MSDS: 3701FMB
GREENGUARD Certificates: 3701FMB,
LATICRETE Technical Data Sheets: 105, 106, 114, 118, 122, 128, 130, 143, 199, 204

C. Lath and Plaster Method: Install cleavage membrane/water resistive barrier coating with current revision of ANSI A108.02 (3.8 Membrane or cleavage membrane). Install metal lath complying with the current revision of ANSI A108.01 (3.3.5.1) and A108.1A (1.0 – 1.2, 1.4, and 5.1). Apply latex-portland cement mortar as scratch/leveling coat over wire lath, concrete or masonry in compliance with current revision of ANSI A108.01 (3.3.5.1) and A108.1A (1.4). Float surface of scratch/leveling coat plumb, true and allow mortar to set until firm. For installation of adhered masonry veneer, thin brick or stone, follow Thin Bed Method (§ 3.4 D).

Use the following LATICRETE System Materials
LATICRETE 3701 Fortified Mortar Bed

References
LATICRETE Data Sheets: 100.0
LATICRETE MSDS: 3701FMB
GREENGUARD Certificates: 3701FMB,
LATICRETE Technical Data Sheets: 105, 106, 114, 118, 122, 128, 130, 143, 199, 204

D. Thin Bed Method to Install Adhered Masonry Veneer, Thin Brick or Stone: Install latex portland cement mortar in compliance with current revisions of ANSI A108.02 (3.11), A108.1B and ANSI A108.5. Use the appropriate trowel notch size to ensure proper bedding of the adhered masonry veneer, thin brick or stone selected. Work the latex portland cement mortar into good contact with the substrate and comb with notched side of trowel. Spread only as much latex portland cement mortar as can be covered while the mortar surface is still wet and tacky. When installing large format (>8” x 8”/200 mm x 200 mm) units/stone, spread latex portland cement mortar onto the back of (i.e. “back-butter”) each piece/unit in addition to trowelling latex portland cement mortar over the substrate. Beat each piece/unit into the latex portland cement mortar with a beating block or rubber mallet to insure full bedding and flatness. Allow installation to set until firm. Clean excess latex portland cement mortar from adhered masonry veneer, thin brick or stone face and joints between pieces.

Use the following LATICRETE System Materials
LATICRETE® Masonry Veneer Mortar

References
LATICRETE Data Sheet: 060.0
LATICRETE MSDS: Masonry Veneer Mortar
GREENGUARD Certificate: Masonry Veneer Mortar
LATICRETE Technical Data Sheets: 105, 118, 129, 209

E. Pointing Joints

NOTE TO SPECIFIER: Specify color for each type/color of adhered masonry veneer, thin brick, stone and trim unit.

Pointing Mortar – for joint widths ≥1/2” (12 mm) and ≤1-1/4” (32 mm): Allow adhered masonry veneer, brick or stone installation to cure a minimum of 24 hours at 70°F (21°C). Verify grout joints are free of dirt, debris, wedges or spacers. Sponge or wipe dust/dirt off veneer face and remove any water standing in joints. Surface temperature must be between 40 – 90°F (4 – 32°C). Pour approximately 4 quarts (3.8 l) of clean, potable water into a clean mixing container. Add a 50 lb (22.7 kg) bag of LATICRETE Masonry Pointing Mortar to the container while mixing. Mix by hand or with a slow speed mixer to a smooth, stiff consistency. Install latex fortified cement grout in compliance with current revisions of ANSI A108.1A (7.0), ANSI A108.02 (4.5) and ANSI A108.10. Dampen dry surfaces with clean water.

Place LATICRETE Masonry Pointing Mortar into a high quality masonry mortar pointing bag. Carefully bag the pointing mortar into the joints. Once the mortar has become stiff in the joint, (“thumb-print dry”) typically 15 – 20 minutes after pointing at 70°F (21°C), using a striking or joint tool, strike the mortar joints to the desired finish/contour. Remove excess mortar using a masonry brush or sponge. Do not over wash the mortar joint.

Higher temperatures may require faster time to initial cleaning; wider joints or lower temperatures may require a longer time to initial cleaning. Allow grout joints to become firm. Inspect joint for pinholes/voids and repair them with freshly mixed grout. Within 24 hours, check for remaining haze and remove it with warm soapy water and a nylon scrubbing pad, using a circular motion, to lightly scrub surfaces and dissolve haze/film. Do not use acid cleaners on latex portland cement grout less than 10 days old.

Use the following LATICRETE System Materials
LATICRETE Masonry Pointing Mortar

www.laticrete.com  | 75  | Innovative Tile and Stone Installation Systems
Use the following LATICRETE® System Materials

LATICRETE Latasil™

LATICRETE Latasil™ 9118 Primer

References

LATICRETE® MVIS Master Specification

References

LATICRETE Data Sheets: 228.0
LATICRETE MSDS: Masonry Pointing Mortar
GREENGUARD Certificates: 2500
LATICRETE Technical Data Sheets: 201, 400

K. Expansion and Control Joints: Provide control or expansion joints as located in contract drawings and in full conformity, especially in width and depth, with architectural details.

1. Substrate joints must carry through, full width, to surface of adhered masonry veneer, thin brick or stone.

2. Install expansion joints in adhered masonry veneer, thin brick or stone work over construction/cold joints or control joints in substrates.

3. Install expansion joints where adhered masonry veneer, thin brick or stone abut restraining surfaces (such as perimeter walls, curbs, columns), changes in plane and corners.


5. Joint width: 1/8” (3 mm) and <1” (25 mm).

6. Joint width: depth – 2:1 but joint depth must be 1/8” (3 mm) and ≤ 1/2” (12 mm).

7. Layout (field defined by joints): 1:1 length: width is optimum but must be ≤ 2:1. Remove all contaminants and foreign material from joint spaces/surfaces, such as dirt, dust, oil, water, frost, setting/ grouting materials, sealers and old sealant/backer. Use LATICRETE® Latasil™ 9118 Primer for underwater and permanent wet area applications, or for porous stone (e.g. limestone, sandstone etc…) installations. Install appropriate backing material (e.g. closed cell backer rod) based on expansion joint design and as specified in § 07920. Apply masking tape to face of adhered masonry veneer, brick or stone veneer. Use caulking gun, or other applicator, to completely fill joints with sealant. Within 5 – 10 minutes of filling joint, ‘tool’ sealant surface to a smooth finish. Remove masking tape immediately after tooling joint. Wipe smears or excess sealant off the face of adhered masonry veneer, thin brick, stone or other absorptive surfaces immediately.

References

LATICRETE Detail Drawings: WP300, WP301, WP302, WP303, EJ-01, EJ-06, EJ-08, EJ-09, EJ-10, EJ-12, EJ-13, EJ-14 (Sealant treatments only)
LATICRETE Data Sheets: 6200.1, 6526.1
LATICRETE MSDS: Latasil, Primer
LATICRETE Technical Data Sheets: 211, 252

L. Adjusting: Correction of defective work for a period of one (1) year following substantial completion, return to job and correct all defective work. Defective work includes, without limitation, adhered masonry veneer units, thin brick units or stones broken in normal abuse due to deficiencies in setting bed, loose grout, and all other defects which may develop as a result of poor workmanship.

3.5 Cleaning

Clean excess mortar/epoxy from veneer surfaces with water before they harden and as work progresses. Do not contaminate open grout/caulk joints while cleaning. Sponge and wash veneers diagonally across joints. Do not use acids for cleaning. Polish with clean dry cloth. Remove surplus materials and leave premises broom clean.

3.6 Protection

A. Protect finished installation under provisions of §01500 and §01535. Close areas to other trades and traffic until adhered masonry veneer, thin brick or stone being installed has set firmly. Cure work in swimming pools, fountains and other continuous immersion applications for 14 days for latex portland cement based pointing mortar at 70°F (21°C) before flood testing or filling installation with water. Extend period of protection of veneer work at slower temperatures, below 60°F (15°C), and at high relative humidity (>70% R.H.) due to retarded set times of mortar/adhesives. Replace or restore work of other trades damaged or soiled by work under this section.
PART 4 – HEALTH AND SAFETY

The use of personal protection such as rubber gloves, suitable dust masks, safety glasses and industrial clothing is highly recommended. Discarded packaging, product wash and waste water should be disposed of as per local, state or federal regulations.

All references are the intellectual property of their respective owners:


1. PRODUCT NAME
LATICRETE® 3701 Fortified Mortar Bed

2. MANUFACTURER
LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA

   Telephone:  +1.203.393.0010, ext. 235
   Toll Free:   1.800.243.4788, ext. 235
   Fax:        +1.203.393.1684
   Internet:   www.laticrete.com

3. PRODUCT DESCRIPTION
LATICRETE 3701 Fortified Mortar Bed is a polymer fortified blend
of carefully selected polymers, portland cement and graded
aggregates. LATICRETE 3701 Fortified Mortar Bed does not require
the use of latex admix, you only need to add water to produce thick
bed mortar with exceptional strength. LATICRETE 3701 Fortified
Mortar Bed is an approved substitute for LATICRETE 226 Thick Bed
Mortar mixed with LATICRETE 3701 Mortar Admix.

Uses
- Interior and Exterior Applications
- Wet and Dry Applications
- Bonded and Non-Bonded Thick Bed Mortar Applications
- Conventional Thick Bed Mortar Applications
- Concrete Repairs

Advantages
- 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
- Conforms to EN 13813 With a CT-C30-F7 Classification

Suitable Substrates
- Concrete
- Ceramic Tile and Stone
- 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

<table>
<thead>
<tr>
<th>Coverage</th>
<th>Thickness</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 ft² at 1/2&quot;</td>
<td>(1.1 m² at 12 mm)</td>
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<tr>
<td>6 ft² at 1&quot;</td>
<td>(0.56 m² at 25 mm)</td>
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<tr>
<td>3 ft² at 2&quot;</td>
<td>(0.3 m² at 50 mm)</td>
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</tbody>
</table>

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
- Use LATAPOXY® 300 Adhesive for installing green marble or
  moisture sensitive stone, agglomerates, and resin backed tile or
  stone.
- Adhesives/mastics, mortars and grouts for ceramic tile,
  pavers, brick and stone are not replacements for waterproofing
  membranes. When a waterproofing membrane is required, use
  a LATICRETE Waterproofing Membrane (see Section 10 FILING
  SYSTEMS).

Cautions
Consult MSDS for more safety information.
- During cold weather, protect finished work from traffic until fully
cured.
- Allow a minimum 14 day cure at 70°F (21°C) after the final
  grouting period prior to filling water features with water.
- 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.
- KEEP OUT OF REACH OF CHILDREN.
4. TECHNICAL DATA

Applicable Standards
EN 13813

Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Water Absorption ANSI A118.7.3.4</th>
<th>28 Day Compressive Strength ANSI A118.7.3.5</th>
<th>Flexural Strength ANSI A118.7.3.5</th>
<th>Shrinkage 7 Day Cure ASTM C157</th>
<th>TCNA Service Rating ASTM C-627</th>
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<tr>
<td></td>
<td>5%</td>
<td>4000–5000 psi (27.6–34.5 MPa)</td>
<td>1100–1200 psi (7.5–8.3 MPa)</td>
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<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>EN13813 Specification</th>
<th>Results</th>
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<tbody>
<tr>
<td>28 day cure</td>
<td>flexural strength</td>
<td>EN 13892-2</td>
<td>7 MPa (1015 psi)</td>
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<tr>
<td>28 day cure</td>
<td>compressive strength</td>
<td>EN 13892-2</td>
<td>30 MPa (4350 psi)</td>
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<td></td>
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<td></td>
<td>30–36 MPa (4350–5220 psi)</td>
</tr>
</tbody>
</table>

LATICRETE® 3701 Fortified Mortar Bed® is an EN13813 C30F7 mortar.

Working Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Results</th>
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</thead>
<tbody>
<tr>
<td>Pot Life</td>
<td>2 hours</td>
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<tr>
<td>Time to Foot Traffic</td>
<td>16 hours</td>
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<tr>
<td>Time to Heavy Traffic</td>
<td>72 hours</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, 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 tile work 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 E1-171 “Movement joints-Vertical and Horizontal”. Do not cover expansion joints with mortar.

APPLICATION

Mortar Bed

Mixing Mortar Bed—Dry Pack Consistency for Floors:
Mix a 60 lb bag (27 kg) of LATICRETE® 3701 Fortified Mortar Bed to 0.7–0.8 gal (2.6–3 l) of water. Mix to a stiff, semi-dry consistency. Mix ratio may vary dependent upon weight of finish.

Bonded Mortar Bed—Installation: Before placing mortar, apply a slurry bond coat made from LATICRETE 254 Platinum or LATICRETE 4237 Latex Additive mixed with LATICRETE 211 Powder. While the slurry bond coat is wet, spread the mortar and compact well. If placing tile immediately, apply a slurry bond coat, made from either LATICRETE 254 Platinum or LATICRETE 4237 Latex Additive mixed with LATICRETE 211 Powder to the mortar. While the slurry bond coat is wet and sticky, place the tile and beat in well. Refer to TDS 143 “Slurry Bond Coats – When and What to Use” for more information on slurry bond coats.

Unbonded Mortar Bed—Installation: Before placing mortar, place a cleavage membrane (e.g. 4 mil thick polyethylene sheeting or 15 lb, builder felt) on the substrate. Place mortar over the cleavage membrane (approximately 1/2 the depth of the mortar bed). Next, place 2" x 2" (50 mm x 50 mm), 16 gauge galvanized welded wire mesh over the mortar. Then, place the balance of the mortar bed. The wire mesh should be suspended in the middle of the mortar bed. Spread the mortar and compact well. Minimum mortar bed thickness shall be 2" (50 mm). If placing tile immediately, apply a slurry bond coat, made from either LATICRETE 254 Platinum or LATICRETE 4237 Latex Additive mixed with LATICRETE 211 Powder to the mortar. While the slurry bond coat is wet and sticky, place the tile and beat in well.

WALL RENDERS

Mixing Wall Renders:
Mix a 60 lb bag (27 kg) of LATICRETE 3701 Fortified Mortar Bed to 0.7–0.8 gal (2.6–3 l) 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 tile.

As a Pumped Mortar for Renders and Plaster:
7 – 60 lb (27.3 kg) bags of LATICRETE 3701 Fortified 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.
APPLICATION

Concrete Repair and Resurfacing — Leveling Mortar
Consistency Mixing Leveling Mortars Mix a 60 lb bag (27.3 kg) of LATICRETE® 3701 Fortified Mortar Bed to 0.7–0.8 gal (2.6–3 l) of water. Mix to a plastic consistency. Mix ratio may vary dependent upon weight of finish.

Concrete Repair and Resurfacing — Installation: Before placing mortar, apply a slurry bond coat made from LATICRETE 254 Platinum or LATICRETE 4237 Latex Additive mixed with LATICRETE 211 Powder. Apply a slurry bond coat to all reinforcing steel and existing clean, sound and stable concrete surfaces just prior to placing the mortar. While the slurry bond coat is wet and sticky place the topping mortar. Compact the surface of the mortar with a flat trowel and ensure all voids are filled. Avoid over troweling.

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).

NOTE: A slurry bond coat should also be applied to the edges of mortar beds installed from previous work periods.

Cleaning
Clean tools and tile work 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
DS 230.05: LATICRETE 5 Year System Warranty
DS 230.15: LATICRETE 10 Year System Warranty (For Steel or Wood Framed Exterior Facades)
DS 230.15MVIS: LATICRETE 15 Year System Warranty For Steel or Wood Framed Exterior Facades Manufactured Veneer Installation System
DS 025.0: LATICRETE 25 Year System Warranty

8. MAINTENANCE

LATICRETE and LATAPOXY grouts 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):
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 230.05: LATICRETE 5 Year System Warranty
DS 230.15: LATICRETE 10 Year System Warranty (For Steel or Wood Framed Exterior Facades)
DS 230.15MVIS: LATICRETE 15 Year System Warranty For Steel or Wood Framed Exterior Facades Manufactured Veneer Installation System
DS 025.0: LATICRETE 25 Year System Warranty
DS 230.99: LATICRETE Lifetime System Warranty
DS 236.0: LATICRETE 9235 Waterproofing Membrane
DS 230.1: LATICRETE 4237 Latex Additive
DS 239.0: LATICRETE 211 Powder
DS 677.0: LATICRETE 254 Platinum
DS 633.0: LATAPOXY 300 Adhesive
DS 663.0: LATICRETE Hydro Ban™
TDS 143: Slurry Bond Coats When and What to Use
1. PRODUCT NAME
LATICRETE® Hydro Ban™

2. MANUFACTURER
LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA
Telephone:  +1.203.393.0010, ext. 235
Toll Free:  +1.800.243.4788, ext. 235
Fax: +1.203.393.1684
Internet: www.laticrete.com

3. PRODUCT DESCRIPTION
LATICRETE Hydro Ban is a thin, load bearing waterproofing/crack isolation membrane that DOES NOT require the use of fabric in the field, covers or corners. LATICRETE Hydro Ban is a single component self curing liquid rubber polymer that forms a flexible, seamless waterproofing membrane. LATICRETE Hydro Ban bonds directly to a wide variety of substrates.

Uses
- Interior and Exterior
- Swimming Pools, Fountains and Water Features
- Shower Pans, Stalls and Tub Surrounds
- Industrial, Commercial and Residential Bathrooms and Laundries
- Spas and Hot Tubs
- Kitchens and Food Processing Areas
- Terraces and Balconies Over Unoccupied Spaces
- Countertops and Facades
- Steam Rooms (When Used in Conjunction With a Vapor Barrier)

Advantages
- Allow For Flood Testing in 2 Hours at 70°F (21°C) or Higher*
- Does Not Require the Use of Fabric*
- Bonds Directly to Metal and PVC Plumbing Fixtures Only
- Thin; Only 0.020–0.030” (0.5–0.8 mm) Thick When Cured
- Changes in Color From a Light Sage to an Olive Green When Cured
- Anti-Fracture Protection of up to 1/8” (3 mm) Over Shrinkage and Other Non-Structural Cracks
- “Extra Heavy Service” Rating per TCNA Performance Levels (RE: ASTM C627 Robinson Floor Test)
- Exceeds ANSI A118.10 and A118.12
- IAPMO Approved
- Contains Microban® Antimicrobial Product Protection
- Rapid Drying For a Faster Time to Tile
- Lighter Color For Ease of Inspection
- Safe—No Solvents and Non-Flammable
- Install Tile, Brick and Stone Directly Onto Membrane
*  For gaps 1/8” (3 mm) or less see DS 663.5 for complete instructions.
* Refer to cautions section for more information on curing.

Suitable Substrates
- Concrete
- Concrete and Brick Masonry
- Cement Mortar Beds
- Cement Plaster
- Gypsum Wallboard*
- Exterior Glue Plywood*
- Ceramic Tile and Stone**
- Cement Terrazzo**
- Cement Backer Board***
- Poured Gypsum Underlayment*
* Interior applications only.
** If skim coated with a LATICRETE® latex thin-set mortar.
*** Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

Packaging
Commercial Unit: 5 gal (18.9 l) pail liquid (36 commercial units/pallet).
Mini Unit: 4 x 1 gal (3.8 l) pails of liquid packed in a carton (30 cartons/pallet).

Approximate Coverage
Commercial Unit: 250 ft² (23.2 m²)
Mini Unit: 50 ft² (4.6 m²)

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

- DO NOT bond to OSB, particle board, luan, Masonite® or hardwood surfaces.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use LATICRETE® Hydro Ban™.

**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/stretch installations or L/480 for thin bed stone installations where L=span length.

- DO NOT use as a primary roofing membrane over occupied space.
- DO NOT use over dynamic expansion joints, structural cracks or cracks with vertical differential movement (See LATICRETE Hydro Ban Installation Instructions, DS 663.5, for complete instructions).
- DO NOT use over cracks >1/8" (3 mm) in width.
- DO NOT use as a vapor barrier (especially in steam rooms).
- DO NOT expose unprotected membrane to sun or weather for more than 30 days.
- DO NOT expose to negative hydrostatic pressure, excessive vapor transmission, rubber solvents or ketones.
- Must be covered with ceramic tile, stone, brick, concrete, screeds, terrazzo or other traffic-bearing finish. Use protection board for temporary cover.
- Obtain approval by local building code authority before using product in shower pan applications.
- DO NOT install directly over single layer wood floors, plywood tubs/shower/fountains or similar constructs.

Cautions

Consult MSDS for more safety information.

- Allow membrane to cure fully (typically 24 hours at 50°F–69°F (10°C–21°C) and 70% RH and 2 hours at 70°F (21°C) or higher and 50% RH before flood testing); flood test prior to applying tile or stone.
- Maximum amount of moisture in the concrete/mortar bed substrate should not exceed 5 lbs/1,000 ft² (283 µg/s m²)/24 hrs per ASTM F-1869 or 75% relative humidity as measured with moisture probes.
- During cold weather, protect finished work from traffic until fully cured.
- For white and light-colored marbles, use a white LATICRETE latex portland cement thin-set mortar.
- For green and moisture sensitive marble, agglomerates and resin backed tile and stone use LATAPOXY® 300 Adhesive (refer to Data Sheet 633.0).
- Wet coat thickness is 0.017 to 0.022" (0.4 to 0.6 mm) per coat. Use a wet film thickness gauge to check thickness.
- Allow wet mortars/plasters (deck mud consistency) to cure for 72 hours at 70°F (21°C) prior to installing LATICRETE Hydro Ban. Allow the LATICRETE Hydro Ban a minimum 2 hours cure at 70°F (21°C) prior to flood testing in these conditions.
- Protect from exposure to traffic or water until fully cured.
- The LATICRETE Hydro Ban will go from a light sage green to a darker olive green when fully cured. The second coat should not be applied until the first coat is fully cured. All flood test times should be after the second coat is fully cured with no light sage areas showing.

4. TECHNICAL DATA

Approval

- ICC Evaluation Service Report ESR-2417
- IAPMO/Uniform Plumbing Code File No.3524
- Los Angeles Board of Building and Safety Commissioners File Number: M-070162
- City of Philadelphia Plumbing Advisory Board Case Number: 4624
- City of Tampa Construction Services Division

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.

Applicable Standard

ANSI A118.10 and A118.12
Physical Properties

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<thead>
<tr>
<th>Physical Property</th>
<th>Test Method</th>
<th>LATICRETE® Hydro Ban™</th>
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</thead>
<tbody>
<tr>
<td>7-day Hydrostatic Test</td>
<td>ANSI A118.10</td>
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<tr>
<td>7-day Tensile Strength</td>
<td>ANSI A118.10</td>
<td>265–300 psi (1.8–2.0 MPa)</td>
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<td>7-day Water Immersion</td>
<td>ANSI A118.10</td>
<td>95–120 psi (.7–.83 MPa)</td>
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<td>7-day Shear Bond</td>
<td>ANSI A118.10</td>
<td>200–275 psi (1.4–1.9 MPa)</td>
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<td>28-day Shear Strength</td>
<td>ANSI A118.10</td>
<td>214–343 psi (1.5–2.3 MPa)</td>
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<tr>
<td>System Crack Resistance Test</td>
<td>ANSI A118.12.5.4</td>
<td>Pass (High)</td>
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<tr>
<td>Water Vapor Transmission</td>
<td>ASTM E 96–00E1 Procedure B</td>
<td>0.515 grains/h • ft² (0.3602 g/h • m²)</td>
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<td>1.247 perms 71.21 (ng/Pa • s • m²)</td>
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Time to Tile

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<th>Time to Tile (min.) *</th>
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<tbody>
<tr>
<td>Concrete</td>
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<tr>
<td>Cement Board</td>
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<td>HardiBacker®</td>
<td>15</td>
</tr>
</tbody>
</table>

*After second coat is applied at 70°F (21°C) and 50% RH. The time to tile will vary depending on substrate, temperature and relative humidity.

Working Properties

LATICRETE® Hydro Ban™ can be applied using a paint brush, roller or trowel. All areas must have two coats to ensure waterproofing capabilities. When using a paint roller, substrate will not show through LATICRETE Hydro Ban if coated with 0.020–0.030" (0.5–0.8 mm) of dried membrane. Color changes from a light sage green to olive green when fully cured.

5. INSTALLATION

Surface Preparation

Surface temperature must be 50–90°F (10–32°C) during application and for 24 hours after installation. All substrates must be structurally sound, clean and free of dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. Make rough or uneven concrete smooth to a wood float or better finish with a LATICRETE underlayment. Do not level with gypsum or asphalt based products. Maximum deviation in plane must not exceed 1/4" in 10' (6 mm in 3 m) with no more than 1/16" in 1' (1.5 mm in 0.3 m) variation between high spots. Dampen hot, dry surfaces and sweep off excess water—installation may be made on a damp surface. New concrete slabs shall be damp cured and a minimum of 14 days old before application.

1. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length.

2. Minimum construction for interior plywood floors.

**SUBFLOOR:** 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheet ends and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

**UNDERLAMENT:** 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (6 mm) between sheets edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 “Bonding Ceramic Tile, Stone or Brick Over Wood Floors” for complete details.

Pre-Treat Cracks and Joints: Fill all substrate cracks, cold joints, and control joints to a smooth finish using a LATICRETE latex fortified thin-set. Alternatively, a liberal coat of LATICRETE Hydro Ban applied with a paint brush or trowel may be used to fill in non structural joints and cracks. Apply a liberal coat of LATICRETE Hydro Ban approximately 8" (200 mm) wide over substrate cracks, cold joints, and control joints using a paint brush or roller (heavy napped roller cover). LATICRETE 6" (150 mm) reinforcing fabric can be used to pretreat cracks, joints, curves, corners, drains and penetrations with LATICRETE Hydro Ban.

Pre-Treat Coves and Floor/Wall Transitions: Fill all substrate coves and floor/wall transitions to a smooth finish and changes in plane using a LATICRETE latex fortified thin-set mortar. Alternatively, a liberal coat of LATICRETE Hydro Ban applied with a paint brush or trowel may be used to fill in cove joints and floor/wall transitions <1/8" (3 mm). Apply a liberal coat of LATICRETE Hydro Ban approximately 8" (200 mm) wide over substrate coves and floor/wall transitions using a paint brush or roller (heavy napped roller cover).
Pre-Treat Drains: Drains must be of the clamping ring type, with weepers and as per ASME A112.6.3. Apply a liberal coat of LATICRETE® Hydro Ban Waterproofing Membrane liquid around and over the bottom half of drain clamping ring. Cover with a second coat of LATICRETE Hydro Ban. When dry, apply a LATICRETE Latasil bead where the LATICRETE Hydro Ban meets the drain throat. Install top half of drain clamping ring.

Pre-Treat Penetrations: Allow for a minimum 1/8” (3 mm) space between drains, pipes, lights or other penetrations and surrounding ceramic tile, stone or brick. Pack any gaps around pipes, lights or other penetrations with a LATICRETE latex fortified thin-set mortar. Apply a liberal coat of LATICRETE Hydro Ban liquid around penetration opening. Cover with a second coat of LATICRETE Hydro Ban. Bring LATICRETE Hydro Ban up to level of tile or stone. When dry, seal flashing with LATICRETE Latasil.

Main Application: Allow any pre-treated areas to dry to the touch. Apply a liberal coat of LATICRETE Hydro Ban with brush or roller over substrate including pre-treated areas. Apply another liberal coat of LATICRETE Hydro Ban over the first coat of LATICRETE Hydro Ban. Let topcoat dry to the touch, approximately 1–2 hours at 70°F (21°C) and 50% RH. When last coat has dried to the touch, inspect final surface for pinholes, voids, thin spots or other defects. LATICRETE Hydro Ban will dry to an olive green color when fully cured. Use additional LATICRETE Hydro Ban to seal defects.

Expansion Joints
See LATICRETE Hydro Ban Installation Instructions 663.5.

NOTE: Apply a liberal coat of LATICRETE® Hydro Ban™, approximately 8” (200 mm) wide over the areas. Then embed and loop the 6” (150 mm) wide LATICRETE Waterproofing Membrane Reinforcing Fabric and allow to bleed through. Then top coat with a second coat of LATICRETE Hydro Ban.

Protection
Provide protection for newly installed membrane, even if covered with a thin bed ceramic tile, stone or brick installation, against exposure to rain or other water for a minimum of 2 hours at 70°F (21°C) and 50% RH.

Flood Testing
Allow membrane to cure fully before flood testing, typically 2 hours after final cure at 70°F (21°C) and 50% RH. Cold and/or wet conditions will require a longer curing time. For temperatures 50–69°F (10–21°C) allow 24 hours after final cure prior to flood testing.

Installing Finishes
Once LATICRETE Hydro Ban has dried to the touch, ceramic tile, stone or brick may be installed by the thin bed method with a LATICRETE latex thin-set mortar. Allow LATICRETE Hydro Ban to cure 2 hours at 70°F (21°C) and 50% RH before covering with concrete, thick bed mortar, screeds, toppings, coatings, epoxy adhesives, terrazzo or moisture sensitive resilient or wood flooring. Do not use solvent-based adhesives directly on LATICRETE Hydro Ban.

Drains and Penetrations
Use LATICRETE Latasil and foam backer rod to seal space between drain or penetration and finish. Do not use a grout or joint filler mortar.

Control Joints
Ceramic tile, stone and brick installations must include sealant-filled joints over any control joints in the substrate. However, the sealant-filled joints can be offset horizontally by as much as one tile width from the substrate control joint location to coincide with the grout joint pattern.

Expansion Joints
Ceramic tile, stone and brick installations must include expansion at coves, corners, other changes in substrate plane and over any expansion joints in the substrate. Expansion joints in ceramic tile, stone or brickwork are also required at perimeters, at restraining surfaces, at penetrations and at the intervals described in the Tile Council of North America, Inc. (TCNA) Handbook Installation Method E1171. Use LATICRETE Latasil and backer rod.

Spray Application of LATICRETE® Hydro Ban™
Follow all installation and surface preparation requirements outlined in this document and DS 663.5 and TDS 410.

The sprayer being used for the application of LATICRETE Hydro Ban should be capable of producing a maximum of 3300 psi (22.8 MPa) with a flow rate of 0.95 to 1.6 GPM (3.6 to 6.0 LPM) using a 0.521 or a 0.631 reversible tip. Keep the unit filled with LATICRETE Hydro Ban to ensure continuous application of liquid. The hose length should not exceed 100’ (30 m) in length and 3/8” (9 mm) in diameter.

Apply a continuous LATICRETE Hydro Ban film with an overlapping spray. The wet film has a sage green appearance and dries to a darker olive green color. When the first coat has dried to a uniform olive green color, approximately 45 to 90 minutes at 70°F (21°C), visually inspect the coating for any voids or pinholes. Fill any defects with additional material and apply the second coat at right angles to the first. The wet film thickness should be checked periodically using a wet film gauge. Each wet coat should be 0.015–0.022 inches (0.4–0.6 mm) thick. The combined dried coating should be 0.020–0.030 inches (0.5–0.8 mm) thick or 0.029–0.043 inches (0.7–0.11 mm) wet.

Check application thickness with a wet film gauge periodically as the LATICRETE Hydro Ban is being dispensed to ensure that the appropriate thickness and coverage is achieved. Bounce back and overspray will consume more product. To achieve the required film thickness, the coating must be free from pinholes and air bubbles. Do not back roll the spray applied coating. Allow the LATICRETE Hydro Ban to cure in accord with the instructions in this document, DS 663.5 and TDS 410 prior to the installation of the tile or stone finish.

It is important to note that areas not scheduled to receive the LATICRETE Hydro Ban should be taped off and protected from any overspray.
potential overspray. Expansion and movement joints should be honored and treated as outlined in this document, DS 663.5 and TDS 410.

**Cleaning**
While wet, LATICRETE® Hydro Ban™ can be washed from 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, ext. 235
- 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.

**Availability**
A component of:
- DS 230.13: LATICRETE Product Warranty
- DS 230.05: LATICRETE 5 Year System Warranty
- DS 230.15: LATICRETE 10 Year System Warranty For Steel or Wood Framed Exterior Facades
- DS 230.15MVIS: LATICRETE 15 Year System Warranty For Steel or Wood Framed Exterior Facades Manufactured Veneer Installation System
- DS 230.99: LATICRETE Lifetime System Warranty
- DS 230.13MVIS: LATICRETE 25 Year System Warranty
- DS 230.99: LATICRETE Lifetime System Warranty
- DS 6200.1: LATICRETE Latsil™
- DS 633.0: LATAPoxy 300 Adhesive
- TDS 152: “Bonding Ceramic Tile, Stone or Brick Over Wood Floors”
- TDS 410: Spraying LATICRETE Hydro Ban

8. **MAINTENANCE**
LATICRETE and LATAPoxy grouts 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):
- 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 230.05: LATICRETE 5 Year System Warranty
- DS 230.15: LATICRETE 10 Year System Warranty For Steel or Wood Framed Exterior Facades
- DS 230.15MVIS: LATICRETE 15 Year System Warranty For Steel or Wood Framed Exterior Facades Manufactured Veneer Installation System
- DS 025.0: LATICRETE 25 Year System Warranty
- DS 230.99: LATICRETE Lifetime System Warranty
- DS 297.0: LATICRETE 220 Marble & Granite Mortar
- DS 6200.1: LATICRETE Latsil™
- DS 633.0: LATAPoxy 300 Adhesive
- TDS 152: “Bonding Ceramic Tile, Stone or Brick Over Wood Floors”
- TDS 410: Spraying LATICRETE Hydro Ban
**1. PRODUCT NAME**  
LATAPOXY® Waterproof Flashing Mortar

**2. MANUFACTURER**  
LATICRETE International, Inc.  
1 LATICRETE Park North  
Bethany, CT 06524-3423 USA  
Telephone: +1.203.393.0010, ext. 235  
Toll Free: 1.800.243.4788, ext. 235  
Fax: +1.203.393.1684  
Internet: [www.laticrete.com](http://www.laticrete.com)

**3. PRODUCT DESCRIPTION**  
LATAPOXY Waterproof Flashing Mortar is an epoxy-based 3 component, trowel applied, waterproofing, and vapor barrier membrane. It can be used to waterproof seams, gaps or joints between a variety of substrates and metal and PVC pipe penetrations or flashing. It is specifically designed to be used under ceramic tile, stone or brick for rapid installations which require a fast curing waterproof flashing. LATAPOXY Waterproof Flashing Mortar is flexible, easy to apply and will allow for rapid installations.

**Uses**  
- Flashing for Plumbing Fixtures and Pipe Penetrations  
- Waterproof Seam Between Flashing and Façade  
- Swimming Pools, Fountains, and Water Features  
- Shower Pans, Stalls, Tub Surrounds  
- Bathrooms and Laundries (Industrial, Commercial and Residential)  
- Kitchens and Food Processing Areas

**Advantages**  
- Fast Curing  
- Waterproof Epoxy Based Formula  
- Extremely Flexible  
- Easy to Apply Using a Trowel  
- Adheres to Metal and PVC Pipes, Drains and Flashing  
- Waterproof Seam Between Flashing and Façade

**Suitable Substrates**  
- Concrete  
- Cement Mortar Beds  
- Cement Plaster  
- Concrete and Brick Masonry  
- Exterior Glue Plywood*  
- Gypsum Wallboard  
- Ceramic Tile and Stone**  
- Cement Terrazzo***  
- Cement Backer Board****  
- Metal†

* Interior Applications Only, not for use in permanent wet areas.  
** If skim coated with a LATICRETE® latex thin-set mortar.  
*** Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.  
† Consult LATICRETE Technical Services prior to use, interior only.

**Packaging**  
3.5 gallon pail with 2 LATAPOXY Waterproof Flashing Mortar Part A 1.4 lbs (.65 kg), 2 LATAPOXY Waterproof Flashing Mortar Part B 1.15 lbs (.5 kg), and 2 LATAPOXY Waterproof Flashing Mortar Part C 5.5 lbs (2.5 kg). 48 units per pallet.

**Color**  
LATAPOXY Waterproof Flashing Mortar is white for easy verification of correct application.

**Approximate Coverage**  
45 ft²/unit (4.2 m²) at 1/8” (3 mm) thick, depending on application

**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**  
- Do not bond to OSB, particle board, luan, Masonite® or hardwood surfaces.  
- Do not use as a primary roofing membrane over occupied space.  
- Do not use over expansion joints, structural cracks or cracks with vertical differential movement.  
- Do not bridge expansion joints, structural cracks, or cracks with vertical differential movement.  
- Must be covered with ceramic tile, stone, brick, concrete, screeds, terrazzo or other wear resistant surface. For temporary cover, use protection board.  
- Obtain approval by local building code authority before using product in shower pan applications.  
- Do not install directly over single layer wood floors, plywood tubs/shower/fountains or similar constructs.
**Cautions**
- During cold weather, protect finished work from traffic until fully cured.
- Until cured LATAPOXY® Waterproof Flashing Mortar may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Contains Silica sand. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.
- Surface temperature must be >45°F (10°C) and less than >90°F (32°C) during installation and for 24 hours thereafter.
- Do not expose unprotected membrane to sun or weather for more than 30 days
- Protect from traffic or water until fully cured.
- Cold weather will require a longer cure time.

**4. TECHNICAL DATA**

**Applicable Standard (ANSI 118.10)**

Meets and exceeds all ANSI 118.10

**Physical Properties**

<table>
<thead>
<tr>
<th>Test</th>
<th>Method</th>
<th>Results</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mold Growth</td>
<td>ANSI A118.10–4.1</td>
<td>No growth</td>
<td>No growth</td>
</tr>
<tr>
<td>Seam Strength</td>
<td>ANSI A118.10–4.2</td>
<td>38–48 lbs/2&quot; wide (3.3–4.2 N/mm wide)</td>
<td>&gt;16 lbs/2&quot; wide (1.4 N/mm wide)</td>
</tr>
<tr>
<td>Breaking Strength</td>
<td>ANSI A118.10–4.3</td>
<td>450–530 psi (3.1–3.6 MPa)</td>
<td>&gt;170 psi (1.17 MPa)</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>ANSI A118.10–4.4</td>
<td>0% change after 72 hr at 158°F (70°C) 0% change after 72 hr at -15°F (−26°C)</td>
<td>&lt;0.7% change after 72 hr at 158°F (70°C) 0% change after 72 hr at -15°F (−26°C)</td>
</tr>
<tr>
<td>Waterproofness</td>
<td>ANSI A118.10–4.5</td>
<td>No moisture</td>
<td>No moisture penetration after 48 hrs</td>
</tr>
<tr>
<td>7 day shear bond strength</td>
<td>ANSI A118.10–5.3</td>
<td>110–150 psi (0.76–1.03 MPa)</td>
<td>&gt;50 psi (0.34 MPa)</td>
</tr>
<tr>
<td>7 day cure 7 day water soak shear strength</td>
<td>ANSI A118.10–5.4</td>
<td>75–95 psi (0.51–0.66 MPa)</td>
<td>&gt;50 psi (0.34 MPa)</td>
</tr>
<tr>
<td>4 week shear bond strength</td>
<td>ANSI A118.10–5.5</td>
<td>90–120 psi (0.62–0.83 MPa)</td>
<td>&gt;50 psi (0.34 MPa)</td>
</tr>
<tr>
<td>12 week shear bond strength</td>
<td>ANSI A118.10–5.6</td>
<td>110–130 psi (0.76–0.9 MPa)</td>
<td>&gt;50 psi (0.34 MPa)</td>
</tr>
<tr>
<td>100 day water soak shear strength</td>
<td>ANSI A118.10 M–5.7</td>
<td>55–80 psi (0.38–0.55 MPa)</td>
<td>&gt;50 psi (0.34 MPa)</td>
</tr>
</tbody>
</table>

5. INSTALLATION

**Surface Preparation**

Surface temperature must be 45–90°F (10–32°C) during application and for 24 hours after installation. All substrates must be structurally sound; clean and free of dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. Make rough or uneven concrete smooth to a wood float or better finish with a LATICRETE underlayment. Do not level with gypsum or asphalt based products. Maximum deviation in plane must not exceed 1/4" in 10' (6 mm in 3 m) with no more than 1/16" in 1' (1.5 mm in 0.3 m) variation between high spots. Dampen hot, dry surfaces and sweep off excess water—installation may be made on a damp surface. New concrete slabs shall be damp cured a minimum of 14 days before application.

1. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length;

2. Minimum construction for interior plywood floors:

**SUBFLOOR:** 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongued and grooved, over bridged joints spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheet ends and 1/4" (6 mm) between sheet edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive;

**UNDERLAMENT:** 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (6 mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 “Bonding Ceramic Tile, Stone or Brick Over Wood Floors” for complete details.

**Mixing**

Mix Part A with Part B for roughly 30 seconds with a low speed drill until thoroughly mixed, uniform in color. Add Part C and mix for 1 minute until evenly dispersal in the liquid. Product is now ready to apply.

**Main Application**

Apply product to substrate using 3/16" x 5/32" (5 x 4 mm) V notched trowel. Allow the trowel to gauge the appropriate amount of material onto the surface using the V notch side. Once material is applied, use the flat side of the trowel to “knock down” or
flatten all ridges to produce a smooth flat surface. Be sure to look for any “pinholes” or areas not covered by the material. If any voids appear, cover same or next day with LATAPOXY® Waterproof Flashing Mortar. Make sure all 90° angles at cove and corners are properly filled.

Flashing and Facades
- Make sure that flashing and facade are free from rust, oil, dirt, etc. and any contaminants that might prevent adequate bonding.
- Ensure flashing is securely fastened, stable, rigid, and does not allow movement.
- Apply LATAPOXY Waterproof Flashing Mortar directly to flashing and waterproof membrane covering the facade, extending 3" (76 mm) on both sides beyond the flashing and facade interface. The mortar will bond directly to the flashing and waterproof membrane. Ensure proper thickness is achieved (minimum 40 mil).

Drains and Pipe Penetrations
- Make sure that pipes and drains are free from rust, oil, dirt, etc. and any contaminants that might prevent adequate bonding. For PVC penetrations, scarify pipe where membrane will be applied with sand paper.
- Ensure pipe penetrations and drains are securely fastened, stable, rigid, and do not allow movement.
- Pack all voids around pipe penetrations with closed cell backer rod in appropriate manner.
- Apply LATAPOXY Waterproof Flashing Mortar directly to pipe penetration, extending 3" (76 mm) above point of installation. No fabric or sealant is required. The membrane will bond directly to the pipe. Ensure proper thickness is achieved (minimum 40 mil).
- Flash LATAPOXY Waterproof Flashing Mortar directly over metal flange of the drain—do not cover the weep holes. A two part clamping ring style drain should be used.

Expansion Joints
- Trowel LATAPOXY Waterproof Flashing Mortar flush to the edge of the joint on each side. Fill the joint with the appropriate sized closed cell backer rod and fill with LATICRETE® Latasil™.

Coves and Corners
- Trowel LATAPOXY Waterproof Flashing Mortar 6" (152 mm) in both vertical and horizontal substrates from cove. Ensure proper thickness by using recommended trowel and install per installation instructions described in “Main Application” section.

Cleaning
Clean tools with water and soap before product sets.

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
Internet: 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 10 Year System Warranty
For Steel or Wood Framed Exterior Facades
DS 230.15MVIS: LATICRETE 15 Year System Warranty For Steel or Wood Framed Exterior Facades Manufactured Veneer Installation System
DS 025.0: LATICRETE 25 Year System Warranty

8. TECHNICAL SERVICES

Technical Assistance
Information is available by calling:
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 10 Year System Warranty
For Steel or Wood Framed Exterior Facades
DS 230.15MVIS: LATICRETE 15 Year System Warranty For Steel or Wood Framed Exterior Facades Manufactured Veneer Installation System
DS 025.0: LATICRETE 25 Year System Warranty
DS 297.0: LATICRETE 220 Marble & Granite Mortar
DS 633.0: LATAPOXY 300 Adhesive
DS 6200.1: LATICRETE Latasil™
1. PRODUCT NAME
LATICRETE® Masonry Veneer Mortar

2. MANUFACTURER
LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA

   Telephone:  +1.203.393.0010, ext. 235  
   Toll Free:  1.800.243.4788, ext. 235  
   Fax:  +1.203.393.1684  
   Internet:  www.laticrete.com

3. PRODUCT DESCRIPTION
LATICRETE® Masonry Veneer Mortar is a patented, versatile polymer fortified mortar designed specifically for the installation of adhered stone, thin brick and manufactured stone masonry veneers. 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 025.0).

Uses
- For vertical, horizontal and overhead installation of manufactured stone, thin brick veneers and natural stone 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 ASTM C270 Bond Strength Requirements and ANSI A118.4 Requirements
- Mixes Only With Water
- 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 and 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
<table>
<thead>
<tr>
<th>Vertical Applications</th>
<th>ft²</th>
<th>m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4” x 3/8” (6 mm x 9 mm) notched trowel</td>
<td>48–58</td>
<td>4.4–5.4</td>
</tr>
<tr>
<td>1/2” x 1/2” (12 mm x 12 mm) notched trowel</td>
<td>36–44</td>
<td>3.3–4.1</td>
</tr>
<tr>
<td>Adhered Masonry Veneer</td>
<td>28–35</td>
<td>2.6–3.2</td>
</tr>
</tbody>
</table>

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
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE® Waterproofing Membrane (see Section 10 FILING SYSTEM).
- Not for use in submerged applications. For these applications, use LATICRETE® 254 Platinum.

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.

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.
- Use LATAPOXY® 300 Adhesive for installing green marble or water sensitive stone and agglomerates, and resin backed tiles and stones.
- 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

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

Physical Properties

(Mixed with 6 qts of [5.7 l])

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shear Bond, Porcelain</td>
<td>ANSI AS118.4 5.2.4</td>
<td>300–330 psi (2.1–2.3 MPa)</td>
</tr>
<tr>
<td>7 day Cure, Water Soak</td>
<td>ANSI A118.4 5.2.3</td>
<td>190–250 psi (1.3–1.7 MPa)</td>
</tr>
<tr>
<td>Sag on Wall</td>
<td>EN 1308</td>
<td>0 mm No Sag observed</td>
</tr>
</tbody>
</table>

From NAP Report 154

Working Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pot Life</td>
<td>4 hours</td>
</tr>
<tr>
<td>Wet Density</td>
<td>11.9 lbs per gallon (1.43 gm/cm³)</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 a LATICRETE® 3701 Fortified Mortar Bed. Expansion joints shall be provided through the 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 and 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/360 for ceramic tile and brick or L/480 for AMSMV units or stone installations where L=span length.

Mixing – 40 lb (18 kg) Bag

Place 6.25 qts (5.9 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. Job site 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® 3701 Fortified Mortar Bed for the wall render prior to installing applicable waterproofing membrane or LATICRETE Masonry Veneer Mortar.

If waterproofing is required, install LATICRETE Hydro Ban™ per instructions (see Data sheet DS 663.0 and DS 663.5) to the substrate prior to installation of LATICRETE Masonry Veneer Mortar.

For AMSMV installations, use a gauging trowel to key a thin coat of LATICRETE Masonry Veneer Mortar to cover entire back of the AMSMV. Spread additional mortar onto the back of the skim coated AMSMV sufficient to completely fill the space between the AMSMV and the substrate when compressed against the substrate. Press the mortar covered back of the AMSMV 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 AMSMV and the substrate, allowing excess mortar to extrude on all sides around the AMSMV. Clean excess extruded mortar with trowel and spread onto the next AMSMV to be installed.

NOTE: Prior to installation, ensure back of AMSMV 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 onto 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.

40 lb (18 kg) Bag

Place 6.25 qts (5.9 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. Job site 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® 3701 Fortified Mortar Bed for the wall render prior to installing applicable waterproofing membrane or LATICRETE Masonry Veneer Mortar.

If waterproofing is required, install LATICRETE Hydro Ban™ per instructions (see Data sheet DS 663.0 and DS 663.5) to the substrate prior to installation of LATICRETE Masonry Veneer Mortar.

For AMSMV installations, use a gauging trowel to key a thin coat of LATICRETE Masonry Veneer Mortar to cover entire back of the AMSMV. Spread additional mortar onto the back of the skim coated AMSMV sufficient to completely fill the space between the AMSMV and the substrate when compressed against the substrate. Press the mortar covered back of the AMSMV 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 AMSMV and the substrate, allowing excess mortar to extrude on all sides around the AMSMV. Clean excess extruded mortar with trowel and spread onto the next AMSMV to be installed.

NOTE: Prior to installation, ensure back of AMSMV 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 onto 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.
LATICRETE® Masonry Veneer Mortar (Data Sheet 060.0)

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 AMSMV or tile 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.

**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 PermaColor™ Grout 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 230.15MVIS: LATICRETE 15 Year System Warranty For Steel or Wood Framed Exterior Facades Manufactured Veneer Installation System
DS 025.0: LATICRETE 25 Year System Warranty

8. **MAINTENANCE**
LATICRETE and LATAPOXY grouts 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):
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 230.15MVIS: LATICRETE 15 Year System Warranty For Steel or Wood Framed Exterior Facades Manufactured Veneer Installation System
DS 025.0: LATICRETE 25 Year System Warranty
DS 228.0: LATICRETE Masonry Pointing Mortar
DS 633.0: LATAPOXY 300 Adhesive
DS 663.0: LATICRETE Hydro Ban™
DS 250.0: LATICRETE PermaColor™ Grout
DS 100.0: LATICRETE 3701 Fortified Mortar Bed
DS 663.5: LATICRETE Hydro Ban Installation Instructions
DS 002.8: LATICRETE Masonry Veneer Installation System Brochure
DS 677.0: LATICRETE 254 Platinum

1. **PRODUCT NAME**

LATICRETE® Masonry Pointing Mortar for adhered stone, thin brick and manufactured stone masonry veneers.

2. **MANUFACTURER**

LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA

   - Telephone: +1.203.393.0010, ext. 235
   - Toll Free: 1.800.243.4788, ext. 235
   - Fax: +1.203.393.1684
   - Internet: [www.laticrete.com](http://www.laticrete.com)

3. **PRODUCT DESCRIPTION**

A premium, factory prepared, Masonry Pointing Mortar designed to be mixed with water or LATICRETE 1776 Grout Enhancer. Formulated from a blend of high strength portland cement, graded aggregates, and color-fast pigments. Provides a joint that is dense, hard and durable.

**Uses**
- For Grout Joint Widths of 0.5" (12 mm) up to 1 1/4" (32 mm).

**Advantages**
- Mix With Water, or For Improved Performance Fortify With LATICRETE 1776 Grout Enhancer with Microban® Anti-Microbial Protection
- Designed For Exterior and Interior Use—Ideal For Both Heavy Duty Use Outdoors and For Long Lasting Beauty Indoors
- Uniform Color—Colors Are Specially Blended to be Uniform in Color
- Part of a Complete LATICRETE System That Includes Materials for Every Aspect of a Stone, Thin Brick, Manufactured Stone, or Tile Installation to Ensure Quality and Long Lasting Performance

**Available in the Following LATICRETE Grout Colors:**
- #24 Natural Grey
- #40 Latte
- #44 Bright White
- #46 Quarry Red
- #61 Parchment
- #85 Almond

---

**Packaging**

50 lb (22.7 kg) bags

**Coverage**

Due to varying stone dimensions and mortar joint width, it is not possible to accurately calculate coverage. If stone dimensions and mortar joint widths are consistent please refer to LATICRETE PermaColor™ Grout^ (25 lb bag) coverage chart and double the coverage stated on the chart.

**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**

- Adhesives/mastics, mortars and grouts for stone, ceramic tile, pavers, brick and concrete tiles are not replacements for waterproof membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane (see Section 10 FILING SYSTEMS).
- Do not use acid to clean colored joints.
- Job site conditions may affect the final color of colored mortar. Try a small test area to determine your results before grouting entire installation.
- Certain types of tile or stone are more absorbent than others and will trap color pigment during pointing.
- Prior to pointing, test for absorption of color pigment. Porous stone or tiles will need to be sealed prior to pointing.

**Cautions**

- During cold weather, protect finished work from traffic until fully cured.
- Protect fresh pointing from rain. Allow mortar to cure for a minimum of 72 hours at 70°F (21°C) before exposing to rain.
- 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.
- LATICRETE Masonry Pointing Mortar must be mixed with LATICRETE 1776 Grout Enhancer for continually submerged installations. Allow to cure for a minimum of 14 days at 70°F (21°C) after the final pointing period prior to submerging pointing mortar.
- KEEP OUT OF REACH OF CHILDREN.
4. TECHNICAL DATA

Applicable Standard

Working Properties
LATICRETE® Masonry Pointing Mortar mixed with Water at 70°F (21°C).

5. INSTALLATION

Surface Preparation
Before starting to point remove spacers and debris in joints and remove dust and dirt using a damp sponge. Do not leave water standing in joints. Substrate temperature must be between 40°F (4°C) and 90°F (32°C). Apply grout release or sealer if necessary.

Mixing
Use approximately 4 quarts (3.8 l) of clean potable water for 50 lbs (22.7 kg) of LATICRETE Masonry Pointing Mortar. Place water in a clean mixing container and add mortar slowly. Mix by hand or with a slow speed mixer to a smooth stiff consistency. Allow mortar to slake for 5 minutes. Remix mortar.

Application
Dampen tile or stone surface with water. Use either a trowel and tuck pointing tool or a mortar bag to place mortar. Once applied allow to firm to "thumbprint" hardness, trowel, rake and/or brush to the desired finish.

6. AVAILABILITY AND COST

Availability
LATICRETE® and LATAPOXY materials are available worldwide. Contact a LATICRETE/LATAPOXY Distributor in your area.

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/LATAPOXY Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty
A component of:
DS 230.15: LATICRETE 10 Year System Warranty
For Steel or Wood Frame Exterior Facades
DS 230.15MVIS: LATICRETE 15 Year System Warranty
For Steel or Wood Framed Exterior Facades
Manufactured Veneer Installation System
DS 025.0: LATICRETE 25 Year System Warranty
DS 236.0: LATICRETE 9235 Waterproofing Membrane
DS 265.0: LATICRETE 1776 Grout Enhancer
DS 634.0: LATICRETE 2000 Industrial Grout
DS 663.0: LATICRETE Hydro Ban™

8. MAINTENANCE

LATICRETE and LATAPOXY grouts 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):
Toll Free: 1.800.243.4788, ext. 235
Telephone: +1.203.393.0010, ext. 235
Fax: +1.203.293.1948

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 10 Year System Warranty
For Steel or Wood Frame Exterior Facades
DS 230.15MVIS: LATICRETE 15 Year System Warranty
For Steel or Wood Framed Exterior Facades
Manufactured Veneer Installation System
DS 025.0: LATICRETE 25 Year System Warranty
DS 236.0: LATICRETE 9235 Waterproofing Membrane
DS 265.0: LATICRETE 1776 Grout Enhancer
DS 634.0: LATICRETE 2000 Industrial Grout
DS 663.0: LATICRETE Hydro Ban™
1. PRODUCT NAME
LATICRETE® Latasil™

2. MANUFACTURER
LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA
Telephone: +1.203.393.0010, ext. 235
Toll Free: 1.800.243.4788, ext. 235
Fax: +1.203.393.1684
Internet: www.laticrete.com

3. PRODUCT DESCRIPTION
LATICRETE Latasil sealant is a high performance, one component, neutral cure, 100% silicone sealant designed for ceramic tile and stone applications.

Uses
- Exterior and Interior Use
- Swimming Pools and Other Wet Area Applications
- Joints for Ceramic Tile and Stone Applications
- Expansion Joints in Residential and Commercial Applications

Advantages
- Conforms to the Following Properties Under ASTM C–920: Type S, Grade NS, Class 25, Use NT, Use I, Use M, Use G
- Conforms to ASTM C-794 Adhesion Properties
- Equipped With Fungicides to Resist Mold and Mildew Growth
- Resistant to Pool Chemicals
- Matches Top 19 LATICRETE Grout Colors and Clear
- Easy to Smooth and Tool
- Excellent For Masonry Construction
- Excellent Movement Capacity—25% Extension and Compression
- Can Be Used Where Ceramic Tile Abuts Glass and Window Framing
- Compliments LATAPOXY® 310 Stone Adhesive System (see section 10. FILING SYSTEMS)

Suitable Substrates
- Stone
- Glass
- Metal/Steel
- Ceramic Tile
- Masonry Surfaces
- Wood and Plastic Surfaces

Available Colors

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Color Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>6200</td>
<td>Clear</td>
</tr>
<tr>
<td>6217</td>
<td>Marble Beige</td>
</tr>
<tr>
<td>6222</td>
<td>Midnight Black</td>
</tr>
<tr>
<td>6223</td>
<td>Antique White</td>
</tr>
<tr>
<td>6224</td>
<td>Natural Grey</td>
</tr>
<tr>
<td>6239</td>
<td>Mushroom</td>
</tr>
<tr>
<td>6235</td>
<td>Mocha</td>
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<td>6240</td>
<td>Latte</td>
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<tr>
<td>6242</td>
<td>Platinum</td>
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<tr>
<td>6244</td>
<td>Bright White</td>
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<tr>
<td>6250</td>
<td>Sea Glass</td>
</tr>
<tr>
<td>6252</td>
<td>Toasted Almond</td>
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<tr>
<td>6261</td>
<td>Parchment</td>
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<tr>
<td>6266</td>
<td>Chestnut Brown</td>
</tr>
<tr>
<td>6267</td>
<td>Autumn Green</td>
</tr>
<tr>
<td>6278</td>
<td>Sterling Silver</td>
</tr>
<tr>
<td>6289</td>
<td>Smoke Grey</td>
</tr>
<tr>
<td>6285</td>
<td>Almond</td>
</tr>
<tr>
<td>6288</td>
<td>Silver Shadow</td>
</tr>
</tbody>
</table>

Packaging
Available in 10.3 oz (305 ml) cartridges; 6 tubes per carton.

Accessory Products
LATICRETE Latasil™ 9118 Primer—one pint (.47 l) jar, 5 pints (.47 l) per carton.

Approximate Coverage
Coverage will vary depending upon joint size and width.

<table>
<thead>
<tr>
<th>Coverage Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximately 11 lineal feet (3.35 m) per tube at 3/8&quot; by 3/8&quot; (9 mm x 9 mm) joint width.</td>
</tr>
<tr>
<td>Approximately 25 lineal feet (7.62 m) per tube at 1/4&quot; by 1/4&quot; (6 mm x 6 mm) joint width.</td>
</tr>
</tbody>
</table>

Shelf Life
When stored in the original, unopened containers at or below 90°F (32°C), LATICRETE Latasil sealant has a 12 month shelf life.

Limitations
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane (see Section 10 FILING SYSTEMS).
- A test area should be conducted when used with stone. Test sealant on small area to verify results.
- Use LATICRETE Latasil 9118 Primer for porous stone and tile and for wet area applications. Conduct a test area to verify results.
LATICRETE® Latasil™ (Data Sheet 6200.1)

Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Temperature Range</td>
<td>-40°F (40°C) to +350°F (177°C)</td>
</tr>
<tr>
<td>Sag or Slump</td>
<td>None</td>
</tr>
<tr>
<td>Tack Free Time at 77°F (25°C), 50% RH</td>
<td>17 Minutes</td>
</tr>
<tr>
<td>Tooling Time</td>
<td>7–10 Minutes</td>
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<tr>
<td>Durometer Hardness—Shore A</td>
<td>27</td>
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<tr>
<td>Tensile Strength</td>
<td>280 psi (1.9 Mpa)</td>
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<tr>
<td>Dynamic Joint Movement</td>
<td>+/-25%</td>
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<tr>
<td>Weatherability, 10,000 hours</td>
<td>No Change</td>
</tr>
<tr>
<td>QUV Weather-meter</td>
<td></td>
</tr>
</tbody>
</table>

5. INSTALLATION

Preparation

- Clean all joints and surfaces to receive sealant, removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants and protective coatings.
- Metal, glass and plastic surfaces should be cleaned by mechanical or solvent procedures. Simple detergent or soap and water treatments are not acceptable. In all cases where utilized, solvents should be wiped on and off with clean, oil and lint free cloths.
- When using any solvent always follow solvent manufacturer’s safety, handling and installation recommendations.
- For perimeter sealing or expansion joint design, the ratio of the joint width to sealant depth should be roughly 2:1.
- Cannot be painted.

Cautions

Consult MSDS for more safety information.
- Protect finished work from traffic and exposure to water until fully cured, generally 24 hours at 70°F (21°C).
- Sealant must cure a minimum of 4 days at 70°F (21°C)/50% R.H. prior to exposing to continuous water submersion.
- However, the other tile/stone installation materials (e.g. mortars, membranes, grouts) must cure a minimum of 14 days at 70°F (21°C)/50% R.H. prior to exposing to continuous water submersion.
- Maintain surface temperature between 40°F (4°C) and 90°F (32°C) during installation and for 24 hours thereafter.
- Uncured sealant may irritate eyes if contact is made. Avoid contact with sealant until cured.
- KEEP OUT OF REACH OF CHILDREN.
- If uncured sealant comes in contact with skin, wash with soap and water immediately.
- Always use LATICRETE® Latasil™ with adequate ventilation and avoid prolonged breathing of vapor and prolonged skin contact.

4. TECHNICAL DATA

Applicable Standard


Swimming Pool Application:

- Use LATICRETE Latasil 9118 Primer for all permanent wet area applications.
- For underwater or continuous wet area applications, polyethylene foam backer rod is recommended. Use polyethylene bond breaker tape on joints too shallow to accommodate foam rod. Polyethylene backer rod is “closed cell” which is water repellent.
General Installation Instructions:
- Use polyurethane or polyethylene foam backer rod for deep joints. Use polyethylene bond breaker tape on joints too shallow to accommodate foam rod. These materials allow the silicone to stretch freely with joint movement.
- Apply masking tape to the face of the veneer. Masking tape will allow for easier removal of sealant if it comes into contact with the face of the veneer. Sealant should only be applied into the joints, adhering to the flanks of the veneer. Applying the masking tape results in a cleaner look, and allows for easy tooling without affecting the face of the veneer.
- Apply sealant into the joint, filling completely.
- Finish joints with a “Jointing Tool” when complete (within 5–7 minutes) for a smooth professional finish. Proper tooling of the sealant ensures contact with the joint flanks.
- Remove masking tape immediately after tooling. Wipe any sealant off the face of the veneer immediately.

Cleaning
Cured joints should be cleaned regularly with a neutral pH cleaner.

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 230.05: LATICRETE 5 Year System Warranty
DS 230.15: LATICRETE 10 Year System Warranty
For Steel or Wood Frame Exterior Facades
DS 230.15MVIS: LATICRETE 15 Year System Warranty
For Steel or Wood Framed Exterior Facades
Manufactured Veneer Installation System
DS 025.0: LATICRETE 25 Year System Warranty
DS 663.0: LATICRETE Hydro Ban™

8. MAINTENANCE
Joints should be cleaned regularly with neutral pH cleaners.

9. TECHNICAL SERVICES
Technical Assistance
Information is available by calling the LATICRETE Technical Service Hotline (hours 8:00 AM to 5:30 PM EST):
- Toll Free: 1.800.243.4788, ext. 235
- Telephone: +1.203.393.0010, ext. 235
- Fax: +1.203.393.1948
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 230.05: LATICRETE 5 Year System Warranty
DS 230.15: LATICRETE 10 Year System Warranty
For Steel or Wood Frame Exterior Facades
DS 230.15MVIS: LATICRETE 15 Year System Warranty
For Steel or Wood Framed Exterior Facades
Manufactured Veneer Installation System
DS 025.0: LATICRETE 25 Year System Warranty
DS 230.99: LATICRETE Lifetime System Warranty
DS 679.0: LATAPOXY 310 Stone Adhesive
DS 6528.1: LATICRETE Latasil ™ 9118 Primer
DS 663.0: LATICRETE Hydro Ban™
Approximate Coverage

- Each bottle will cover approximately 350 linear feet or 106 linear meters.

Shelf Life

When stored in original, unopened containers at or below 90°F (32°C), shelf life is 6 months from date of manufacture. Container should be kept tightly sealed when not in use.

Limitations

- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane (see Section 9 FILING SYSTEMS).
- Flammable—can not be shipped air freight.

Cautions

Consult MSDS for more safety information.

- Avoid direct contact with eyes. If contact with eyes occurs, immediately flush with water and seek medical attention.
- Avoid prolonged exposure to skin. In case of skin contact, wash affected area as soon as possible.
- Keep away from heat, sparks and open flames.
- Use with adequate ventilation, avoid prolonged breathing of vapors.
- Flammable—store in safe location.
- Test a small area when applying to stone for compatibility.
- KEEP OUT OF REACH OF CHILDREN.

4. INSTALLATION

Preparation

- Thoroughly clean all surfaces of dust, dirt tar, oils, and other debris. Remove rust and scale from metal surfaces by abrasive cleaning or wire brushing. Masonry surfaces should also be wire brushed and blown with compressed air to remove dust.
- Thoroughly clean and degrease all surfaces with an industrial solvent such as naptha, mineral spirits, xylene, toluene or MEK on a clean oil-free rag.

Application

- Sealant must be installed in the manner indicated for intended performance.
- Consult the following LATICRETE details at www.laticrete.com for specific sealant installation applications:
  - Shower Receptor—Waterproofing—Cement Backer Unit Walls ES B415
  - Shower Receptor—Waterproofing Above Mortar Bed ES B421
  - Bathtub/Shower Wall Waterproofing ES B412
  - Waterproofing Membrane—Typical Pipe Penetration ES WP300
— Drain Detail—Exploded View ES WP302
— Waterproofing and Secondary Waterproofing Membrane—Drain Detail ES WP303
— Swimming Pool—Tank ES P601
— Swimming Pool—Pool Deck/Trench Drain ES P601c
— For underwater applications and steam rooms, polyethylene foam backer rod is recommended. Use polyethylene tape on joints too shallow to accommodate foam rod. Polyethylene backer rod is a “closed” cell which is water repellent.

- Apply LATICRETE® Latasil™ 9118 Primer to clean, dry surfaces by brushing, dipping, or spraying.
- Apply a thin layer evenly to the substrate—do not apply too thick as bond will break.
- Take care not to contaminate the veneer surface.
- Allow the primer to dry until all the solvent evaporates and is dry to the touch (generally 30–60 minutes at 70°F/21°C). Drying time depends on temperature, humidity conditions and the porosity of the substrate.
- Apply sealant as directed (see Data Sheet 6200.1).

5. 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.

6. WARRANTY

See 9. FILING SYSTEM:

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7. MAINTENANCE

LATICRETE and LATAPOXY grouts 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.

8. TECHNICAL SERVICES

Technical Assistance
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Technical and Safety Literature
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9. FILING SYSTEM

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- DS 230.05: LATICRETE 5 Year System Warranty
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- DS 6200.1: LATICRETE Latasil™