Masonry Veneer Installation System (MVIS™)

Product Selection Catalog

laticrete.com/MVIS

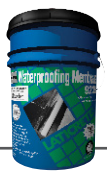
CONTENTS

'50s

4237, first latex thin-set mortar additive in the industry

'60s

LATAPOXY® 210, first cement-based epoxy resin



'70s

9235, first thin, liquid, cold-applied, load-bearing waterproof membrane

'90s

LATAPOXY 2000, first industrial strength 100% epoxy resin grout

First educational program for architects **approved by AIA**

FOR THE BUILDERS OF A BETTER WORLD™

For over 65 years, we at LATICRETE have built our reputation tile by tile. We strive to earn your trust with high quality and high-performing installation systems and building finishing solutions.

If you are new to LATICRETE, welcome. If you have never come across our products before, your success is our main goal, and we are here to help you. If you are a returning customer, thank you; we value your continued support and appreciate your business.

With almost seven decades of setting industry standards, LATICRETE is the name architects, designers and professional installers know and rely on. No matter who you are, we are here to support and serve you.

Happy Installing!
The LATICRETE Team

New Millenium

SPECTRALOCK® Grout, first epoxy grout with patented technology offering stain and chemical resistance

255 MULTIMAX™, first lightweight 3-in-1 thin-set mortar

HYDRO BAN®, first no fabric required, liquid applied waterproof membrane

125 Sound & Crack Adhesive, first one step tile adhesive providing both sound control and anti-fracture performance

'10s & '20s

Masonry Veneer Installation System (MVIS™), industry first comprehensive system for installation of manufactured stone veneers

SPECTRALOCK® 1, first pre-mixed grout with epoxy performance

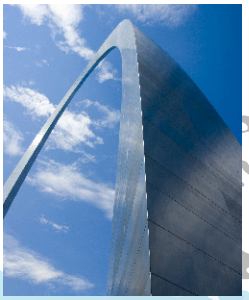
Air & Water Barrier, first load bearing air and water barrier

GLOBALLY PROVEN

What started in a basement in New Haven, CT more than 65 years ago has grown into a reliable, global supply network. LATICRETE® system solutions have been used in the most prestigious and demanding projects around the world. From the bustling streets and subways of New York City to the world's tallest building in Dubai, LATICRETE products are trusted and used throughout the world, whatever the project, whatever the environment.

With business units, distribution and manufacturing facilities on almost every continent (except for Antarctica), our global network can help any project and meet any challenge, with a track record earned over generations.

One World Trade Center | New York, US



St. Louis Gateway Arch | Missouri, US

Cedar Park Center | Cedar Park, TX

Seminole Hard Rock Casino & Hotel | Florida, US

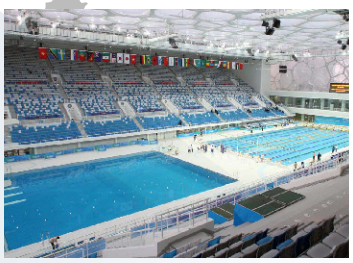
SoFi Stadium | California, US

Baha Mar | Nassau, Bahamas

The Ned Hotel | London, UK

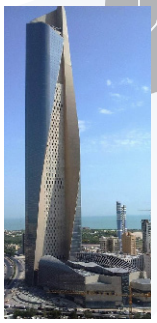
Ritz Carlton | Budapest, Hungary

Statue of Unity | Gujarat, India



Beijing National Aquatics Centre | Beijing, China

Marina Bay Sands Infinity Edge Pool | Singapore



Al Hamra Tower | Kuwait

The Palm Atlantis | Dubai UAE

OUR PROMISE TO YOU

The LATICRETE **Brand Promises** are a company-wide global initiative that builds upon our legacy of research and development of innovative installation products, systems and solutions.

They serve as a call-to-action and highlight six strategic areas of focus:

- Developing innovative solutions,
- Committing to sustainability,
- Enabling iconic design,
- Fostering trust for life,
- Providing the best installer experience, and
- Serving customers as family.

These promises are the cornerstone of our company mission.

WORLD CLASS TECHNICAL SUPPORT

With LATICRETE, you're never on your own. Our dedicated Technical Services team is here to address any questions you have about installing our products. Don't hesitate to reach out at any time, and one of our in-house experts will provide the answers you need.

Call
1-800-243-4788 x1235

Email
technicalservices@laticrete.com

Chat
laticrete.com – M-F 8a-5p EST

Frequently Asked Questions

EDUCATION & TRAINING MADE EASY

Take advantage of FREE training engineered with your needs in mind. Stay up to date with the latest products, industry standards, and help get new employees up to speed fast. We offer a variety of convenient programs, and if there is a topic or product you need more training on, let us know.

LATICRETE University

Learn industry standards and the latest product information in short, self-guided lessons available 24/7. Check them out at laticreteuniversity.com.

On-Site Demos & Training

Need training for associates or customers? Schedule a demo to help improve the knowledge of your team or boost in-store sales with customers. Reach out to a sales rep to schedule.

Profit Through Knowledge

Get hands-on with LATICRETE products and learn step by step installations from our expert installers. Contact our technical services team to discuss potential trainings.

YouTube Videos

Tips and tricks, product announcements, how-tos and more! Be sure to subscribe to the LATICRETE channel to stay up to date on the latest videos.

American Institute of Architects Approved Courses

Earn AIA credits, and learn the latest industry standards, how to avoid installation failures, and get tools designed to streamline the specification process. Full course listing at laticrete.com/aiaces.

AEC Daily

Earn continuing education units (CEUs) and learn the latest installation techniques and solutions. Check our MVIS™ courses available online!

Scan to learn more about Education & Training.

UNMATCHED PEACE OF MIND

LATICRETE offers the **best system warranties** in the industry. By utilizing the product combinations outlined below, you can specify a complete single-source system with confidence. When you install one of our systems, the job is built to last.

15 Year System Warranty

See Data Sheet 2104.0 for complete warranty information.

APPLICATION	PRODUCTS
Air Barrier Components^	Air Barrier C3 MVIS™ Air & Water Barrier LATAPOXY Waterproof Flashing Mortar LATICRETE Flashing Sealant
Bulk Water / Crack Isolation	MVIS WCI MVIS Air & Water Barrier
Thick Mortar Bed	MVIS Premium Mortar Bed MVIS Lite Wall Float
Adhesive Mortar	MVIS Veneer Mortar MVIS Hi-Bond Veneer Mortar MVIS Thin Brick Mortar MVIS Lightweight Mortar
Joint Pointing / Grouting	MVIS Pointing Mortar MVIS Premium Pointing Mortar Base MVIS Epoxy Pointing Mortar
Joint Caulking†	LATASIL™ LATASIL 9118 Primer

25 Year System Warranty

See Data Sheet 0247.0 for complete warranty information.

APPLICATION	PRODUCTS
Air Barrier Components^	MVIS™ Air & Water Barrier LATAPOXY Waterproof Flashing Mortar LATICRETE Flashing Sealant
Bulk Water / Crack Isolation	MVIS WCI MVIS Air & Water Barrier
Thick Mortar Bed	MVIS Premium Mortar Bed MVIS Lite Wall Float
Adhesive Mortar	MVIS Veneer Mortar MVIS Hi-Bond Veneer Mortar MVIS Thin Brick Mortar MVIS Lightweight Mortar
Spot Bonding*	LATAPOXY 310 Stone Adhesive*
Joint Pointing / Grouting	MVIS Pointing Mortar MVIS Premium Pointing Mortar Base MVIS Epoxy Pointing Mortar
Joint Caulking†	LATASIL™ LATASIL 9118 Primer

1. Substrates scheduled to receive manufactured stone, natural stone or thin brick must be structurally sound, rigid and conform to good design/engineering practices in accord with all applicable building codes with maximum deflection under all live, dead and impact loads, including concentrated and all anticipated loads of L/600 for all exterior veneer types. Steel and wood frame constructs shall also be designed to meet this criteria. Lateral bracing and edge support for cement backer board panels is required. Install sheathing panels as directed by board manufacturer's installation instructions and building code requirements.

2. MVIS™ Pointing Mortar is designed to meet product applicable project specifications. MVIS Pointing Mortar does not inhibit efflorescence from occurring in natural or manufactured stone facade installations. Efflorescence is a normal condition that may occur when installing portland cement based products. During installation, strike joints in a consistent time frame relevant to application time. MVIS Pointing Mortar should be thumbprint dry before striking. Striking joints too early or too late can create color inconsistencies.

3. MVIS Pointing Mortar color samples are guides only. LATICRETE does not warrant color matching to any color guide produced. Actual shade and texture will depend on job site conditions, lighting, installation techniques, and types of tile or stone used. Verify actual appearance and compatibility with a test area before installing. Blend colored mortars with different control numbers. No claims for color shade variations will be honored.

4. Please consult LATICRETE Technical Services for more information. 1.800.243.4788, ext. 1235, www.laticrete.com, technicalservices@laticrete.com.

5. For information on pumpable scratch and brown coats, contact LATICRETE Technical Services.

6. For complete application information and limitations consult related Product Data Sheets and Execution Statements related to these details and applicable standards. See Warranty Data Sheet DS-0247 and DS-2104.0 for full information and terms.

7. 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.

8. Design and placement of weather resistive barriers, vapor retarders and air/water barriers to be detailed by project design professional.

†Use of suitable flexible sealant required per Tile Council of 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. *For Concrete and CMU Substrate Exterior Facades only.

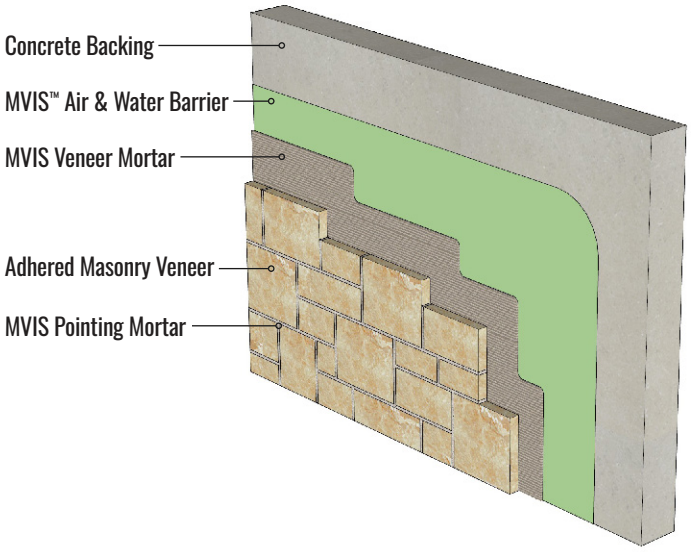
INTRODUCING THE MASONRY VENEER INSTALLATION SYSTEM (MVIS™)

Keep up with the increasing popularity of adhered masonry veneers. Our Masonry Veneer Installation System (MVIS) provides a modern code-approved solution for projects, exceeding the performance of conventional lath and scratch.

Trust your installations to a complete productivity-boosting system designed to deliver superior, long-term performance on masonry and stone veneer projects of all types including residential, commercial, and industrial applications.

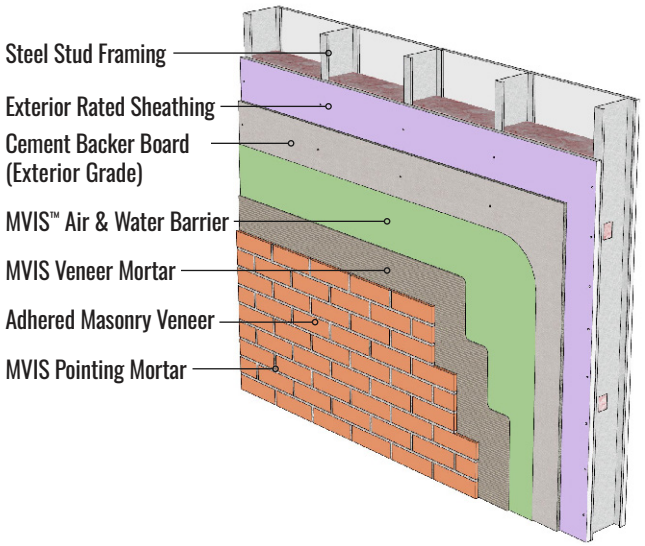
Unlike traditional methods and materials, MVIS is engineered to create permanent, high-strength installations that use revolutionary waterproofing technology to protect against weather and water intrusion, as well as provide freeze/ thaw stability. MVIS is designed for thin-brick, manufactured stone and natural stone veneers for interior and exterior applications.

Exterior wall



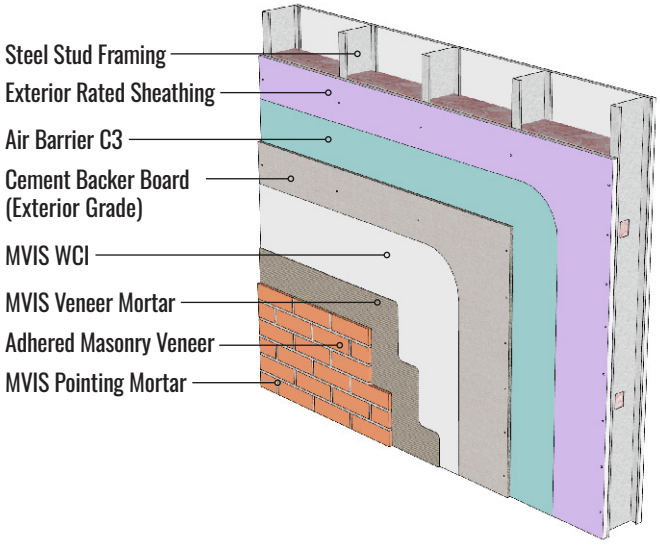
Concrete wall – Direct adhered with fluid applied MVIS™ Air & Water Barrier

Interior wall

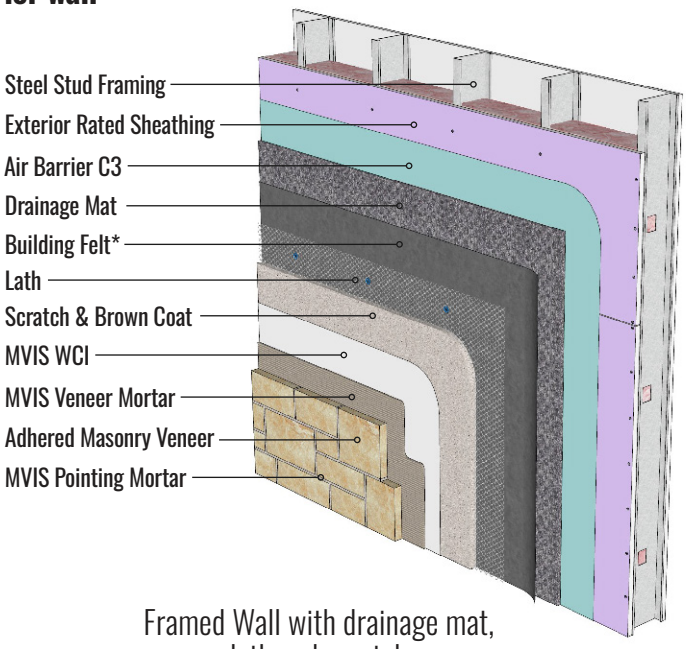


Framed wall with cement backer board substrate

Exterior wall

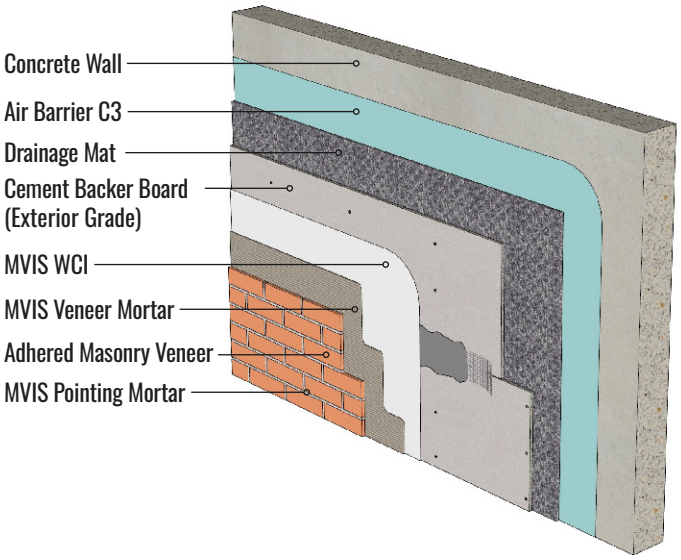


Framed wall with exterior rated sheathing – cement backer board substrate

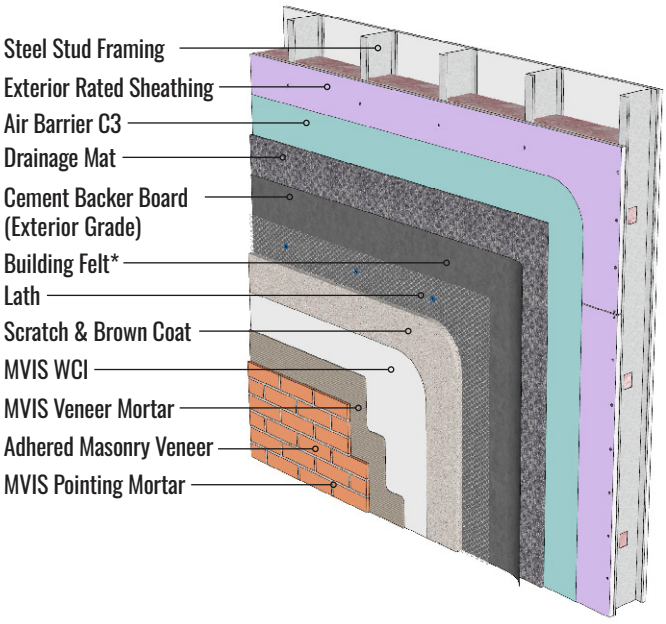


Framed Wall with drainage mat, lath and scratch

Exterior wall

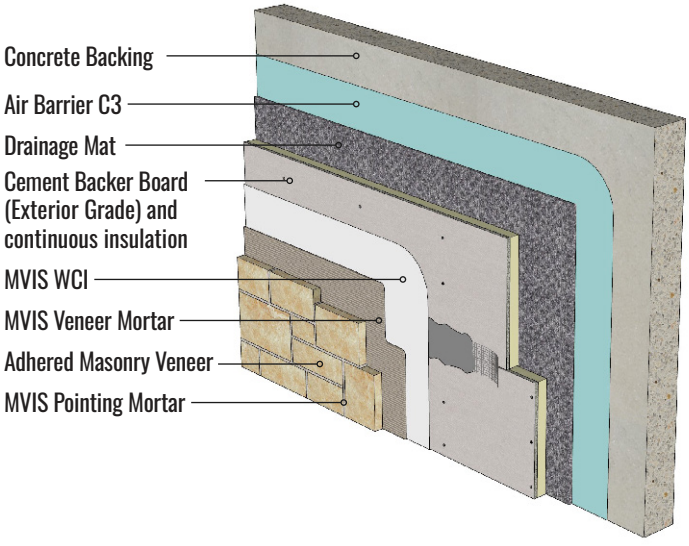


Concrete wall with drainage mat and cement backer board



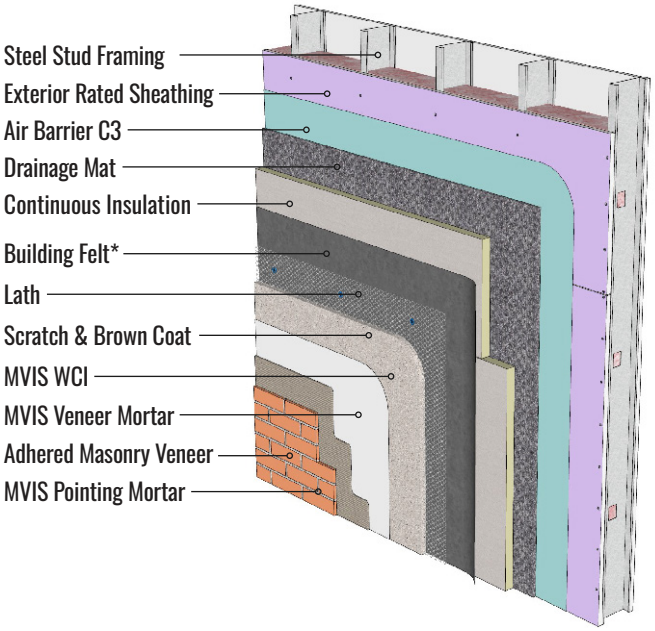
Framed wall with exterior rated sheathing – lath with scratch and brown coat

Exterior wall



Concrete wall with drainage mat and cement backer board

Exterior wall



Framed wall with fluid applied air barrier, drainage mat and lath & scratch coat

* Include or exclude per drainage mat manufacturer recommendations

STAY AHEAD OF CHANGING BUILDING CODES

Learn How The Masonry Society (TMS) Code Changes Could Impact How You Install Masonry Veneer

New code changes are already rolling out across the country, redefining the materials specified for installing stone and brick veneers. MVIS meets, and in many cases, exceeds these new codes for installing thin adhered masonry veneers.

In 2022, The Masonry Society published changes to TMS Codes 402 and 602. These changes are intended to address some of the current issues that arise with the so-called "tried and true" methods of installing masonry veneer.

For instance, traditional mortars, typically used for stacking brick and block, are often used to adhere thin veneer to a vertical surface. They lack the adhesive strength to properly hold the veneer in place, making the system prone to failures, and leading to dangerous situations with thin brick and stone veneer falling off buildings.

To combat these issues, the 2022 TMS 402-602 code change specifies the mandatory use of a modified adhesive mortar when installing thin masonry veneer and expands suitable the substrates they can be adhered to. In 2024, the IRC (International Residential Code) and IBC (International Building Code) are set to adopt the updated code and the changes will soon roll out across the country.

Tradition last and scratch installations are vulnerable to moisture, leading to failures as seen above.

Before your state makes the new codes mandatory, here are the four major takeaways you need to know to be prepared:

- **Bye-Bye Type S** — Polymer modified adhesive mortars will be required for the bonding of all thin adhered veneers. This change will render Type S and site-mixed mortars obsolete when adhering thin masonry veneer.

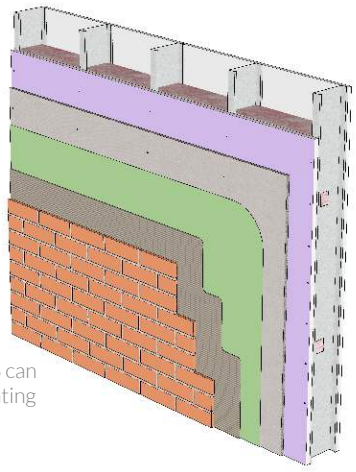
- **New Sizes & Formats** —Larger, heavier stones may now be used – an increase from 15 pounds per square foot to 30 pounds per square foot, up to 360 square inches. For any installation above 360 square inches, you must have an installation method approved by licensed design professionals (the architect or engineer).

- **Ditch the Lath & Scratch** — Bonding directly to cement board, CMU, and concrete substrates will be explicitly permitted with the use of these new mortars, eliminating the need for building a lath and scratch substrate.

- **Higher Installations** — You can now take your installs to whole new level, up to 60 feet above the ground.

Now is the time to educate yourself and prepare your business for the changes ahead.

The Masonry Veneer Installation System — MVIS™ — not only meets the new standards outlined in the codes, but in many cases exceeds them. The mortars, adhesives, membranes, and sealants that comprise this system have changed the way thin masonry veneer are installed, creating safer, more durable projects, backed by a best-in-class 15/25-year warranty.



Adaptable to any number of wall assemblies, MVIS can help create more durable installations while mitigating environmental challenges

Let LATICRETE help you through this transition with our expert knowledge and resources.

- Get free digital training for yourself and your entire team with LATICRETE University.
- Find out how MVIS can make your installs go faster, saving you time and money with our online cost calculator.
- Achieve better results and eliminate callbacks by leveraging the advice of our technical services department.
- Experience the true adaptability of the MVIS System with our database of 3D renderings outlining a variety of installation scenarios.
- Master your installations with our Technical Design Manual, providing in-depth insights on masonry veneer and thin brick facades.

Louisa Flowers

Portland, OR

Building Owners:
Home Forward – Portland, OR

Rooted in Innovation, Growing for Excellence

The LATICRETE Brand Promises are a company-wide initiative to ensure we are fulfilling our commitments to our customers, the Earth, and the construction industry.

Throughout this piece, you will see icons highlighting how those needs were met on this project. Learn more about our brand promises **by scanning the QR code** or **click on it**.

USING MVIS™ TO MEET COMPLEX CHALLENGES IN PORTLAND: THE LOUISA FLOWERS AFFORDABLE HOUSING PROJECT

The Situation

It Began in Downtown Portland...when Home Forward, Oregon's largest non-profit developer in delivering affordable housing and social services, launched a plan to build the city's largest affordable housing project in more than 50 years. The building, known as Louisa Flowers, would push the architects and contractors to break from more traditional construction methods and explore a modern solution for creating an innovative and long-lasting design – the LATICRETE® Masonry Veneer Installation System (MVIS™).

The Challenges

Environmental: Situated in a densely populated, seismically active region, where heavy rains and freeze-thaw cycles wreak havoc on inferior building materials and installations, any construction solutions would have to provide a superior level of adhesion and durability. The materials would also have to help designers hit certain sustainability goals and create an energy-efficient building.

Scale: The 12-story, 240-unit, 177,000 ft^2 (16,443.8 m^2) building would be the biggest thin brick and masonry veneer project ever attempted by the teams involved, and with a limited budget, any building solutions would have to maximize efficiency and offer a streamlined technical solution for installers.

Visibility: This development would be the biggest and tallest affordable housing community in Portland, designed to both honor Louisa Flowers' legacy in the city and provide homes for some of the city's underprivileged citizens. The design had to be iconic and something that could be enjoyed by generations to come, while fitting within the strict design guidelines of the city's historic Lloyd District.

Location: Situated in the middle of a bustling urban environment, and adjacent to major transportation lines like the MAX Light Rail and Portland Streetcar, construction would need to meet certain logistical concerns. The ideal solution would need to ensure a safer, more durable installation, with reduced scaffolding and staging, without disrupting the surrounding neighborhood.

Architects designed a visually striking building using concrete and post-tension concrete slabs for the structural frame and featured various angles on the exterior walls with a thin brick veneer façade of two different thicknesses and textures. The thin bricks would be arranged in a soldier pattern, stacked vertically and side by side, a pattern that requires precision and can extend install time. All these challenges meant the project team, led by O'Neill Walsh Community Builders, Lever Architecture and LRS Architects, would need to find the right subcontractor partner to ensure the job would be done right.

A LATICRETE Solution

Architects designed a visually striking building using concrete and post-tension concrete slabs for the structural frame and featured various angles on the exterior walls with a thin brick veneer façade of two different thicknesses and textures. The thin bricks would be arranged in a soldier pattern, stacked vertically and side by side, a pattern that requires precision and can extend install time. All these challenges meant the project team, led by O'Neill Walsh Community Builders, Lever Architecture and LRS Architects, would need to find the right subcontractor partner to ensure the job would be done right.

The Outcome: A Legacy Reborn

In the late 1800s, Louisa Flowers, an esteemed African American civic leader, settled in Portland, Oregon with her family and became instrumental in establishing the town's African American community. As one of the first black families to own property in the city, Flowers opened her home as a local gathering space and went on to purchase and develop homes for those in need. The Flowers family's communal leadership and economic prosperity became the pillar of Portland's African American community.

Nearly 100 years after her death, the building that honors her name and family's legacy opened its doors to its very first tenants. The Louisa Flowers apartment building offers 240 affordable units, serves 20 of Portland's lowest-income neighborhoods and provides Portland residents easy access to various public transportation systems, employment centers, community amenities and schools. Additionally, residents can enjoy a publicly accessible ground-level courtyard, which features a historical display, created by Oregon Black Pioneers, and a mural by artist Baba Wague Diakite, to showcase the Flowers family and their lives and acknowledge the past, present and future. The building grants housing to the chronically homeless and survivors of domestic violence, helping provide those within its walls achieve a sense of self-worth, a brighter future, and a sense of community. The Louisa Flowers project also helps address the city's affordable housing crisis and improves the lives of those directly impacted by the crisis.

> **"A housing crisis like we've experienced in Portland demands historical action, and that's what this project represents."**
>
> Ted Friedman, Superintendent at Walsh Construction

"The team is incredibly proud of the results of their dedicated and concerted efforts on the success of this project," said Ted Friedman, Project Superintendent for O'Neill/Walsh Community Builders (OWCB), an entity of Walsh Construction Co. and O'Neill Construction Group. "A housing crisis like we've experienced in Portland demands historical action, and that's what this project represents, and we are proud to be a part of this historic event. To be able to provide all affordable units in a building of this scale is an impressive feat, and it's a true testament to Home Forward's deep commitment to the people of Portland, and to provide stable, affordable homes for our community."

The Louisa Flowers project was praised for having an inclusive, diverse project team makeup, with a majority-female-led team and 30% of the project value awarded to minority-owned, woman-owned and emerging small businesses.

The Louisa Flowers affordable housing project achieved a LEED Platinum certification – which surpassed the original sustainability goals and has already been honored for excellence and recognized by AIA Oregon, the Chicago Athenaeum's American Architecture Award, Architizer A+ Awards, Architect's Newspaper Best of Design Award, DJC Oregon TopProjects Awards, the Gold Nugget Awards and the Earth Advantage Green Builder of the Year Awards.

Air Barrier Association of America (ABAA)
EVALUATED LATICRETE AIR BARRIER ASSEMBLIES

ABAA is the nationally incorporated, not-for-profit association representing the stakeholders in the building enclosure industry. The ABAA's mission is to promote the use and benefits of air barrier systems in the future progressively and professionally. ABAA members consist of a large cross-section of the industry, including manufacturers, suppliers, design professionals, owners, contractors and consultants covering all aspects of the installation system. Ask about our NFPA 285 test assemblies.

AIR BARRIER ASSEMBLY TEST REQUIREMENTS FOR ABAA LISTING

The ABAA Assembly Evaluation Process requires air barrier manufacturers to provide independent test reports for air barrier materials and assemblies. ASTM E2357 has been adopted as a key element for evaluating ABAA criteria. To receive evaluated status, a manufacturer must specify each of the components in the system. This is a significant benefit to the design professional as issues such as compatibility and continuous, supported design are resolved by the manufacturer rather than relying on trial and error methods in the field. ABAA Evaluated Air Barrier Assemblies are only those materials for which all required wall assembly testing has been submitted and ABAA evaluation has been successfully completed.

CONTROLLING AIR FLOW

Air flow carries moisture that impacts materials' long-term performance and structural integrity. Air flow must be controlled to design and build safe, healthy, durable, comfortable, and economical buildings. Working together with the building's HVAC system can assist the control of air flow for the life of the building. This system should be every design professional's key strategy to develop an effective enclosure design, set achievable performance requirements and verify compliance.

CODES AND STANDARDS

Today's building codes require an increase in the energy efficiency of buildings. To meet the challenge, some design professionals utilize building envelope systems to seal a building from air infiltration and exfiltration. Since 2001, many US states have adopted air barrier language into their local energy code or building codes. The International Building Code (IBC), International Energy Conservation Code (IECC), International Green Construction Code (IgCC), ASHRAE 189.1 and ASHRAE 90.1-10 all have requirements for continuous air barriers.

To demonstrate code compliance, LATICRETE successfully completed independent testing under the following:
ASTM E 2357: Standard Test Method for Determining Air Leakage of Air Barrier Assemblies.

ICC ES AC 212: ICC ES Acceptance Criteria for Water Resistive Coatings used as Water Resistive Barriers over Exterior Sheathing.

CAN/ULC S742-11: Canadian Standard Test Method for Air Barrier Assemblies.

PRODUCTS	ABAA AND CODE REQUIREMENT	TEST RESULT	PROPERTY
MVIS™ Air & Water Barrier	Not to exceed 0.2L/(s • m^2 @ 75 Pa (0.04 cfm/ft^2@1.56 psf)	0.0017 L/(s • m^2) @ 75 Pa [0.0003 cfm /ft^2 @ 1.57 psf]	Air Leakage of Air Barrier Assembly

Hurricane Testing Testing Application Standard (TAS) 202: Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure (structural only). (TAS) 203: Criteria for Testing Product Subject to Cyclic Wind Pressure Loading.

NFPA 285: Flame Spread Standard Fire Testing Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components.

MVIS™ LITE WALL FLOAT

Refer to Data Sheet 36622
290-0030-21

This super lightweight mortar has been developed with installer safety and convenience in mind. It contains no respirable crystalline silica levels that exceed the OSHA action level* and it is half the weight of traditional Type S mortars. It is easy to float or repair walls up to 3/4" (19 mm) in one lift. Just mix it with water (no blending of powders) and no additional admixtures needed.

FEATURES/BENEFITS:

- Lightweight mortar (30 lbs. / 13.6 kg) is easier to transport and offers the same coverage as a traditional 60 lbs. (27.2 kg) bag of mortar
- Excellent adhesion for vertical and overhead applications – can be applied up to 3/4" (19mm) depth
- Contains no respirable crystalline silica levels that exceed the OSHA action level**
- Freeze / thaw stable for interior and exterior use
- Versatile mortar can be used as a scratch coat or finish coat in place of Type S or Type N mortar
- Pre-Mixed formula requires no job site blending of powders

PACKAGING:

30 lb (13.6 kg) bag; 56 bags per pallet

Approximate Coverage Per 60 lb (27.2 kg) bag
12 ft² (3.7 m²) at 1/2" (12mm)
9 ft² (2.7 m²) at 3/4" (19 mm)

25 YEAR WARRANTY* Made In USA™ LIGHT WEIGHT

MVIS PREMIUM MORTAR BED

Refer to Data Sheet 263.0
9329-0060-21

A polymer fortified blend of carefully selected raw materials, portland cement and graded aggregates. MVIS™ Premium Mortar Bed does not require the use of latex admixtures. Just add water to produce a thick bed mortar with exceptional strength. MVIS Premium Mortar Bed is ideal as the brown coat over wire lath. May be used to level walls and may also be used for sloping and horizontal applications.

FEATURES/BENEFITS:

- For use as a scratch or finish coat in place of Type S or Type N mortar
- 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
- Exceeds ASTM C270 compressive strength requirements for masonry veneer installations.

PACKAGING:

60 lb (27.3 kg) bag; 56 bags per pallet

Approximate Coverage Per 60 lb (27.2 kg) bag
12 ft² at 1/2" (1.1 m² at 12 mm)
6 ft² at 1" thickness (0.56 m² at 25 mm)
3 ft² at 2" (0.3 m² at 50 mm)

25 YEAR WARRANTY* GREENGUARD GOLD Made In USA™

**OSHA action level set forth in OSHA's Respirable Crystalline Silica (RCS) standard for construction, 29 CFR 1926.1153, as tested by an independent laboratory to be below the OSHA action level for respirable crystalline silica - see laticrete.com/silica

AIR BARRIER C3

Refer to Data Sheet 36621
9269-0005-2

AIR BARRIER C3 is a ready-to-use, class 3 waterproof air barrier membrane. It is liquid-applied directly to a variety of approved substrates and will function as a vertical above-grade waterproof air barrier when properly detailed with LATICRETE® Flashing Sealant or LATAPOXY® Waterproof Flashing Mortar.

This non-toxic, water-based, liquid formulation applies seamlessly and does not tear or lose its effectiveness with exposure to weather during construction or while in service.

FEATURES/BENEFITS:

- Waterproof – protects structure from water damage
- Class III permeability rating – high permeability allows excess moisture vapor to leave the building structure
- Excellent bond strength – will not peel, chip, or bubble from substrate
- Controls air leakage of the building – helps save energy and lowers operational carbon footprint
- Safe for interior and exterior use – low VOC emissions, low flame spread and smoke development
- Lighter color for ease of inspection makes inspection for voids easier
- Can be spray-applied for easy, fast installation

PACKAGING:

5 gal (18.9 L) pail; 36 commercial units/pallet

Approximate Coverage

500 ft² (46.4 m²)

25 YEAR WARRANTY | GREENGUARD GOLD | air barrier association of america abaa EVALUATED | Made In USA™

MICROBAN®

MVIS™ AIR & WATER BARRIER

Refer to Data Sheet 661.0
9257-0005-2

A single component, load-bearing, vapor permeable, fluid applied, waterproofing, crack isolation, air barrier membrane. MVIS™ Air & Water Barrier produces a seamless, monolithic elastomeric coating and bonds directly to a wide variety of substrates. A vital component of MVIS is designed to enhance building longevity, save energy and increase building occupant comfort. Install Adhered Masonry Veneers (AMV) in 1-2 hours.

FEATURES/BENEFITS:

- Industry approved, meets ASTM E2357 Air Leakage of Building Assemblies
- Excellent bond strength, bonds to a variety of substrates
- Helps to prevent air leakage, contributes to overall building energy efficiency
- MVIS™ Air & Water Barrier is an ABAA Evaluated Material and is part of an ABAA Evaluated Assembly

PACKAGING:

Commercial Unit: 5 gal (18.9 L) pail; 36 units per pallet.

Approximate Coverage

250 ft² (23.2 m²)

25 YEAR WARRANTY | GREENGUARD GOLD | air barrier association of america abaa EVALUATED | Made In USA™

MICROBAN®

MVIS™ WCI

Refer to Data Sheet 36616
9268-0005-2

MVIS™ WCI Water Crack Isolation membrane is a single component, load-bearing, fluid applied, bulk water management and crack isolation membrane. MVIS WCI is designed to enhance building longevity.

FEATURES/BENEFITS:

- Excellent bond strength — will not peel, chip, or bubble from substrates
- Bulk water management — prevents water migration through the entire system
- Equipped with Microban® anti-microbial product protection^
- Lighter color for ease of inspection — makes inspection for voids easier
- No solvents and non-flammable
- No harmful VOCs

PACKAGING:

5 gal (18.9 L) Pail; 36 units per pallet.

Approximate Coverage

250 ft² (23.2 m²)

25 YEAR WARRANTY | Made In USA™

MICROBAN®

Microban antimicrobial technology protects the treated article against mold and mildew deterioration. Antimicrobial technology is not designed to replace normal cleaning practices or protect users.

LATAPOXY® WATERPROOF FLASHING MORTAR

Refer to Data Sheet 070.0
0024-0001-2

An epoxy-based 3 component, trowel-applied, waterproofing membrane. LATAPOXY® Waterproof Flashing Mortar can be used to waterproof seams, gaps or joints between various substrates and metal and PVC pipe penetrations or flashing. It is specifically designed to be used under adhered masonry veneer, stone or brick for rapid installations requiring a fast curing waterproof flashing. LATAPOXY Waterproof Flashing Mortar is flexible, easy to apply and will allow for rapid installations.

FEATURES/BENEFITS:

- Easy to apply using a trowel
- Adheres to metal and PVC pipes, drains and flashing
- Waterproof seam between flashing and adjacent waterproofing materials

PACKAGING:

3.5 gal pail with 2 LATAPOXY Waterproof Flashing Mortar Part A 1.4 lbs (0.65 kg), 2 LATAPOXY Waterproof Flashing Mortar Part B 1.15 lbs (0.5 kg), and 2 LATAPOXY Waterproof Flashing Mortar Part C 5.5 lbs (2.5 kg); 48 units per pallet

Approximate Coverage

45 ft²/unit (4.2 m²) at 1/8" (3 mm) thick, depending on application

Made In USA™

MICROBAN®

LATICRETE® FLASHING SEALANT

Refer to Data Sheet 36617
9270-2020-2

LATICRETE® Flashing Sealant is a one-component, fast curing, hybrid elastomeric adhesive and sealant. This product is specifically formulated to meet today's Green Building Standards and has excellent adhesion on a wide variety of substrates.

FEATURES/BENEFITS:

- Excellent bond strength
- Will not peel, chip or bubble from substrates
- Contribute to overall building energy efficiency — Helps maintain heating and cooling requirements for the building structure
- MVIS WCI is compatible with LATICRETE Flashing Sealant as part of a system to complete the building envelope
- Meets ASTM D 1970 Nail Sealability requirements — Helps prevent infiltration of air and moisture
- No solvents and non-flammable
- No harmful VOCs

PACKAGING:

20 oz (592 ml) sausage pack

Approximate Coverage

Approximately 49 lineal feet (14.9 m) per sausage pack at 1/4" x 1/4" (6 x 6 mm) joint width

Made In USA™

WATERPROOFING/ ANTI-FRACTURE FABRIC

Refer to Data Sheet 237.0
S-09235-NF-19

A ready-to-use thin, flexible, non-woven reinforcement fabric designed for use specifically with LATICRETE Air Barrier. Also, use Waterproofing/Anti-Fracture Fabric to treat inside, outside corners and rough openings to allow faster installations.

FEATURES/BENEFITS:

- Versatile, can be used on interior, exterior, vertical and horizontal applications
- Tear resistant, provides added strength to installation areas with added stress when used with a waterproofing membrane

PACKAGING:

75' (23 m) long roll fabric
6" (15 cm) wide
20 per carton or 1 each

Approximate Coverage

37.5 ft² (3.5 m²) per roll

Made In USA™

MVIS™ VENEER MORTAR

Refer to Data Sheet 060.0
0261-0040-21

A patented, versatile polymer fortified adhesive mortar designed specifically to install adhered masonry veneer, stone and thin brick. MVIS™ Veneer Mortar is a high-performance mix that provides maximum non-sag performance for vertical installations and obtains maximum bond strength to the substrate and selected veneers. MVIS Veneer Mortar offers exceptional workability.

FEATURES/BENEFITS:

- Incredible non-sag performance – faster easier installations
- Provides maximum bond strength to substrate and veneer
- Exceeds ASTM C270 and ASTM C482 strength requirements
- Mixes only with water

PACKAGING:

40 lb (18.2 kg) bag; 56 bags per pallet; Grey

Approximate Coverage Per 40 lb (18 kg) bag

VERTICAL APPLICATIONS

NOTCHED TROWEL	COVERAGE
1/4" x 3/8" (6 mm x 9 mm)	55 - 65 ft² (5.1 - 6.0 m²)
1/2" x 1/2" (12 mm x 12 mm)	42 - 50 ft² (3.9 - 4.6 m²)
Adhered Masonry Veneer Application Method	28 - 33 ft² (2.6 - 3.1 m²)

25 YEAR WARRANTY | GREENGUARD GOLD | Made In USA™

MVIS HI-BOND VENEER MORTAR

Refer to Data Sheet 246.0
9354-0050-21

The ultimate, polymer fortified, adhesive mortar for interior and exterior installation of large format adhered masonry veneer, stone, ceramic tile, pavers or thin brick. MVIS Hi-Bond Veneer Mortar mixes easily with water and is formulated to achieve unsurpassed workability and adhesion.

FEATURES/BENEFITS:

- Exceeds ANSI A118.4, A118.11 and A118.15
- Ultimate adhesion for masonry veneers
- Exterior and interior use

PACKAGING:

50 lb (22.7 kg) bag; 56 bags per pallet; Grey

Approximate Coverage Per 50 lb (22.7 kg) bag

NOTCHED TROWEL	COVERAGE
1/4" x 3/8" (6 mm x 9 mm)	60 - 70 ft² (5.6 - 6.5 m²)
1/2" x 1/2" (12 mm x 12 mm)	40 - 45 ft² (3.7 - 4.2 m²)
Adhered Masonry Veneer Application Method	30 - 33 ft² (2.8 - 3.1 m²)

25 YEAR WARRANTY | GREENGUARD GOLD | Made In USA™

MICROBAN®

MVIS THIN BRICK MORTAR

Refer to Data Sheet 248.0
9359-0050-21

MVIS Thin Brick mortar is a versatile, polymer fortified adhesive mortar designed specifically for the installation of thin brick and thin masonry veneer applications. Excellent non-sag capability and high bond strength provide efficient and secure installations on varied substrates.

FEATURES/BENEFITS:

- Incredible non-sag performance, including large and/or heavy thin brick, stone, and masonry veneer
- Easy to mix and apply - provides quick, efficient thin brick installations
- Exceeds ANSI A118.4, A118.11 and A118.15
- Exceeds ASTM C270 requirements

PACKAGING:

50 lb (22.7 kg) bag; 56 bags per pallet; Grey

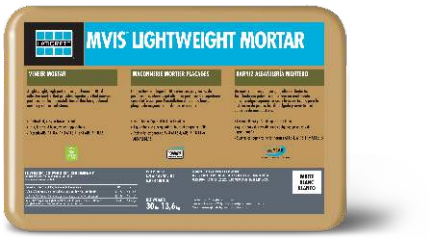
Approximate Coverage Per 50 lb (22.7 kg) bag	
NOTCHED TROWEL	**COVERAGE**
1/4" x 3/8" (6 mm x 9 mm)	60 - 70 ft² (5.6 - 6.5 m²)
1/2" x 1/2" (12 mm x 12 mm)	40 - 47 ft² (3.7 - 4.4 m²)
Adhered Masonry Veneer Application Method	30 - 35 ft² (2.8 - 3.2 m²)

25 YEAR WARRANTY^

Made In USA™

MVIS™ LIGHTWEIGHT MORTAR

Refer to Data Sheet 060.1
9369-0030-22



MVIS™ Lightweight Mortar is a Lightweight, high-performance multi-use, polymer fortified adhesive mortar. MVIS Lightweight Mortar offers tremendous utility, including non-sag wall installations. Now available in custom colors using PERMACOLOR® Select^ color kits for your stacked stone and non-pointed projects.

FEATURES/BENEFITS:

- Unique color options are now available in all LATICRETE® grout colors when mixed with PERMACOLOR Select Color Kits
- Incredible non-sag performance, including large and/or heavy thin brick, stone, masonry veneer
- Lightweight formula. A 30 lb (13.6 kg) bag provides the same coverage as a 50 lb (22.7 kg) bag of traditional mortar
- Exceeds ANSI A118.4, 118.11 and 118.15
- Bonds to many suitable substrates
- Contains no detectable respirable crystalline silica that exceeds OSHA action levels**

PACKAGING:

30 lb (13.6 kg) bag; 56 bags per pallet; White

Approximate Coverage Per 30 lb (13.6 kg) bag	
NOTCHED TROWEL	**COVERAGE**
1/4" x 3/8" (6 mm x 9 mm)	60 - 70 ft² (5.6 - 6.5 m²)
1/2" x 1/2" (12 mm x 12 mm)	40 - 47 ft² (3.7 - 4.4 m²)
Adhered Masonry Veneer Application Method	30 - 35 ft² (2.8 - 3.2 m²)

25 YEAR WARRANTY^

Made In USA™

**OSHA action level set forth in OSHA's Respirable Crystalline Silica (RCS) standard for construction, 29 CFR 1926.1153, as tested by an independent laboratory to be below the OSHA action level for respirable crystalline silica - see laticrete.com/silica

BUILDERS VENEER MORTAR

Refer to Data Sheet 36652
9330-0050-22

A versatile, polymer fortified adhesive mortar designed specifically for the installation of adhered masonry veneer, natural stone, manufactured stone, and thin brick. A high strength mix provides excellent performance for vertical installations and obtains maximum bond strength to the substrate and veneers.

FEATURES/BENEFITS:

- Exceeds ANSI A 118.4 performance requirements
- Provides maximum bond strength to veneers and substrate
- Exceeds ASTM C270 compressive strength requirements for masonry veneer installations
- Passes IBC and IRC shear bond strength code requirements for adhered masonry veneer when tested in accordance with ASTM C482
- Mixes only with water – no admix needed

PACKAGING:

50 lb (22.7 kg) bag; 56 bags per pallet; Grey
One (1) pallet minimum for ordering

Approximate Coverage Per 30 lb (13.6 kg) bag

NOTCHED TROWEL	COVERAGE
1/4" x 3/8" (6 mm x 9 mm)	60 - 70 ft² (5.6 - 6.5 m²)
1/2" x 1/2" (12 mm x 12 mm)	40 - 47 ft² (3.7 - 4.4 m²)
Adhered Masonry Veneer Application Method	30 - 35 ft² (2.8 - 3.2 m²)

GREENGUARD GOLD

Made In USA™

LATAPOXY® 310 STONE ADHESIVE

Refer to Data Sheets 679.0 and 679.3
S-310AB-NC-08 S-310AB-NC-08-1 S-310AB-NC-10
S-310AB-NC-10-1 S-310AB-CC-10 S-310AB-CC-10-1

A strong, two-component epoxy adhesive for spot-bonding large format tile and stone on vertical surfaces. Easier and faster than traditional methods of veneer installation.

FEATURES/BENEFITS:

- For interior or approved exterior applications
- Comes in both standard and rapid version for faster curing
- No drilling, cutting kerfs, or setting pins
- Allows for quick plumb adjustment while stone is in place to compensate for uneven walls and stone thickness variations
- Won't fail or deteriorate over time
- ANSI A118.3 and ISO 13007-1 R2T classification

PACKAGING:

Kit: 2.6 gal (9.8 L): All components packed in one carton; 40 cartons per pallet. Available in standard and rapid versions. 2 gal (7.6 L): 8 x 1.06 quart (8 x L) units packed in one carton; 40 cartons per pallet. Available in standard and rapid versions.
Cartridges: 2.3 gal (8.7 L) Cartridge Pack (for use in LATAPOXY® 310 Cordless Mixer): 15 x 0.16 gal (0.6 L) cartridges per carton, 27 cartons per pallet. Available in standard and rapid versions.

Approximate Coverage

Average Inches (or millimeters) Out of Plumb	LATAPOXY® 310 Stone Adhesive Thickness	Approximate Coverage/10 Liter Units
Plumb Wall 1/8" (3 mm)	1/8" thick (3 mm)	300 - 325 ft² (27 - 30 m²)
1/4" (6 mm)	1/4" thick (6 mm)	150 - 170 ft² (14 - 16 m²)
1/2" (12 mm)	1/2" thick (12 mm)	75 - 80 ft² (7 - 7.5 m²)

25 YEAR WARRANTY

Made In USA™

LATAPOXY 310 CORDLESS MIXER AND NOZZLES

Refer to Data Sheet 683.0
RT8480310 RT8480500

This dual-component mixer quickly dispenses LATAPOXY 310 Stone Adhesive onto tile, porcelain, and stone veneers.

FEATURES/BENEFITS:

- Triples productivity of vertical stone and tile installations
- Install hundreds of square feet per day
- Design and gear system allow speed and dosing control
- No mixing—just insert the dual component cartridge, screw on the mixing nozzle, and pull the trigger

PACKAGING:

1 LATAPOXY 310 Cordless Mixer per carton; 24 cartons per pallet

Made In USA™

MVIS POINTING MORTAR

Refer to Data Sheet 228.0
04XX-0050-2

A factory-prepared, high-performance mortar system, MVIS Pointing Mortar is designed to be mixed with water. Formulated from a blend of high-strength portland cement, graded aggregates, and color-fast pigments. Provides a joint that is dense, hard and durable.

FEATURES/BENEFITS:

- Provides a durable, hard joint
- For joint widths of 3/16" (5 mm) up to 1-1/4" (32 mm)
- Exterior and interior use

COLORS:

See the Pointing Mortar Color Chart on page 30 for a list of available colors.

PACKAGING:

50 lb (22.7 kg) bag; 56 bags per pallet

Nominal Thickness / Approximate Coverage

700 - 750 linear ft (213 - 229 linear m) with 3/8" wide by 1/4" (9 mm x 6 mm) deep joint

25 YEAR WARRANTY™ GREENGUARD Made In USA™

MVIS™ PREMIUM POINTING MORTAR BASE

Refer to Data Sheet 65444
2800-0020-2

MVIS™ Premium Pointing Mortar Base is a premium, factory-prepared, high performance & fast setting masonry pointing mortar that offers the industry's first dispersible dry pigment solution that can allow for a wide range of colors. It also provides a masonry pointing mortar joint that is dense, hard, and color consistent.

FEATURES/BENEFITS:

- Intended use for structural glazed block, glazed thin brick, and pre-sealed finishes
- 40 colors – Excellent design flexibility
- Consistent color and stain-resistant
- Strong and durable, fiber-reinforced

Each PERMACOLOR® Select Color Kit contains two Color Packets.
Use 4 Color Packets when mixing with 20 lb (9 kg) Pointing Base

COLORS:

PERMACOLOR Select Color Kit: Available in all 40 LATICRETE colors (10 x carton). Each PERMACOLOR Select Color Kit contains 2 Color Packets. See Color Chart on page 29.

PACKAGING:

20 lb (9.1 kg) bag; 108 bags per pallet

Approximate Coverage

250-275 linear ft. (76-84 linear m) with 1/4" (6 mm) deep by 3/8" (9 mm) wide joint

25 YEAR WARRANTY™ GREENGUARD Made In USA™ MICROBAN®

Dissolve 2 PERMACOLOR® Select Color Kits (2 packets) in water, add one 20 lb (9.0 kg) bag of MVIS™ Premium Pointing Mortar Base and mix. You are ready to point!

Refer to Data Sheet 250.0 for mixing instructions

* LATICRETE makes no guarantee on color match to our grout color card and color tools. For stack stone applications, do not use colored adhesive mortar as a substitute for grout. Always conduct a test area to validate performance and results.

*United States Patent No.: 6784229 B2 (and other Patents)

MVIS™ EPOXY POINTING MORTAR - PART AB LIQUIDS

Refer to Data Sheet 273.0
S-228P4-NS-03

A three-component, high-performance epoxy-based pointing mortar system, MVIS™ Epoxy Pointing Mortar provides superior joint durability and stain resistance. The non-sag formula mixes and installs with ease. **Note: SPECTRALOCK® Part C Color sold separately**

FEATURES/BENEFITS:

- Intended use for structural glazed block, glazed thin brick, and pre-sealed finishes
- Residential, commerical, and industrial
- Interior and exterior use
- Vertical and overhead applications
- Wet areas
- Easy to maintain – cleanable to the original color
- 80 minutes working time at 70°F (21°C)
- Tough, durable and crack resistant

COLORS:

See the Pointing Mortar Color Chart on page 30 for a list of available colors.

PACKAGING:

MVIS Epoxy Pointing Mortar Part A:
4 x 1.3 lb (0.6 kg),
MVIS Epoxy Pointing Mortar Part B:
4 x 1.3 lb (0.6 kg),
gloves, sponge, and cleaning packets packed in one carton; 44 cartons per pallet.
Note: SPECTRALOCK® Part C Powder required and sold separately.

Approximate Coverage Standard unit for pointing joint

600 - 650 linear ft (183 - 198 linear m) of 3/8" wide x 1/4" deep joint (9 mm x 6 mm)

25 YEAR WARRANTY
GREENGUARD GOLD
Made In USA™

MICROBAN®

SPECTRALOCK® PART C COLORS

Refer to Data Sheet 685.0
12XX-0409-2

For use with MVIS™ Epoxy Pointing Mortar Part AB liquids sold separately.

FEATURES/BENEFITS:

- Excellent color uniformity
- Mold and mildew resistant
- Never needs sealing

COLORS:

See the Pointing Mortar Color Chart on page 29 for a list of available colors.

PACKAGING:

Full Unit:
9 lb (4.1 kg) container
4 containers per carton
44 cartons per pallet

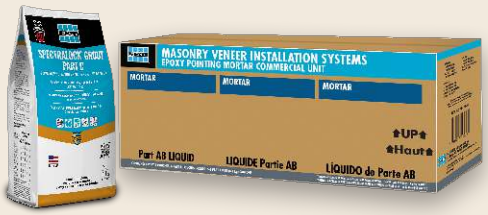
LIFETIME WARRANTY
Made In USA™

GREENGUARD GOLD

Scan for Color Selector

PPMB MVIS™ Premium Pointing Mortar

PM MVIS Pointing Mortar



EPM MVIS Epoxy Pointing Mortar

L LATASIL™ (Also available in Clear)

Clear

L

03 Silk	09 Frosty	17 Marble Beige	18 Sauterne	22 Midnight Black
PPMB L EPM	PPMB L EPM	PPMB L EPM	PPMB L EPM	PPMB L EPM
23 Antique White	24 Natural Grey	27 Hemp	30 Sand Beige	34 Sandstone
PPMB L EPM	PPMB PM L EPM	PPMB L EPM	PPMB L EPM	PPMB L EPM
35 Mocha	39 Mushroom	40 Latte	42 Platinum	44 Bright White
PPMB L EPM	PPMB PM L EPM	PPMB PM L EPM	PPMB L EPM	PPMB PM L EPM
45 Raven	46 Quarry Red	52 Toasted Almond	53 Twilight Blue	56 Desert Khaki
PPMB PM L EPM	PPMB PM L EPM	PPMB L EPM	PPMB L EPM	PPMB L EPM
57 Hot Cocoa	58 Terra Cotta	59 Espresso	60 Dusty Grey	61 Parchment
PPMB L EPM	PPMB PM L EPM	PPMB L EPM	PPMB L EPM	PPMB L EPM
66 Chestnut Brown	67 Autumn Green	78 Sterling Silver	81 Butter Cream	85 Almond
PPMB PM L EPM	PPMB L EPM	PPMB L EPM	PPMB L EPM	PPMB L EPM
87 Stormy Grey	88 Silver Shadow	89 Smoke Grey	90 Light Pewter	91 Slate Grey
PPMB L EPM	PPMB L EPM	PPMB L EPM	PPMB L EPM	PPMB L EPM
93 Fossil	94 Walnut	95 Mink	96 Steamship	97 Iron
PPMB L EPM	PPMB L EPM	PPMB L EPM	PPMB L EPM	PPMB L EPM

POINTING MORTAR AND SILICONE SEALANT COLOR GUIDELINES

All pointing mortar and sealant samples are guides only. LATICRETE does not warrant color matching to this color chart or any color guide produced. Actual shade and texture will depend on job site conditions, lighting, installation techniques and types of adhered veneer used, and may vary from any color charts, color channel kits and color swatches on product packaging. Verify actual appearance and compatibility with a test area before installing. Blend pointing mortar with different control numbers. No claims for color shade variations will be honored.

Note: Color availability of all Pointing Mortars are subject to change.

LATASIL™

Refer to Data Sheet 6200.1
62XX-0120-2

A 100% silicone sealant for use in coves, corners, changes in plane, and expansion joints in exterior and interior applications of tile and stone. LATASIL™ silicone sealant is available in 40 colors, as well as clear.

FEATURES/BENEFITS:

- Can be used in water features and other wet areas when used with LATASIL Primer 9118
- Conforms to ASTM C920 and ASTM C794 adhesion properties

COLORS:

See the Pointing Mortar Color Chart on page 30 for a list of available colors.

PACKAGING:

10.3 oz (305 ml) cartridges; 6 cartridges per carton; 240 cartons per pallet
5 gal (18.9 L) pail; 24 units per pallet.

Approximate Coverage Per cartridge	
THICKNESS	COVERAGE
1/4" x 1/4" (6 mm x 6 mm)	25 linear feet (7.62 m)
3/8" x 3/8" (9 mm x 9 mm)	11 linear feet (3.35 m)

25 YEAR WARRANTY*

Made In USA™

MICROBAN®

LATASIL 9118 PRIMER

Refer to Data Sheet 6528.1
9118-0601-2

A single component primer designed to increase the adhesion of LATASIL with porous stone or permanently wet/ underwater applications.

FEATURES/BENEFITS:

- Prevents picture framing in porous stones
- Easy brush application

PACKAGING:

8 oz (240 ml) bottle; 5 bottles per carton;
50 cartons per pallet

25 YEAR WARRANTY*

Made In USA™

Worry less. Protect masonry and stone surfaces with STONETECH®

Offering STONETECH®, a range of professional grade care and maintenance solutions for masonry and natural stone surfaces.

Great for pavers, brick, manufactured stone, exposed aggregate concrete slabs, flagstone, sandstone and other natural stones.

Products enlarged to show detail. Not actual size.

1. What is the Masonry Veneer Installation System (MVIS™)?

MVIS™ was designed to create a better way to install thin adhered masonry veneer. With over 65 years of setting industry standards with waterproofing and polymer fortified adhesive cement technology, LATICRETE offers an installation system that provides a permanent solution to adhering natural, manufactured stone, thin brick and other products to vertical and horizontal substrates. MVIS, when used per written instructions, provides the owner with a warranted solution for the installation of thin brick, manufactured stone, natural stone, and other thin veneer products.

2. What's wrong with the methods traditionally used to install thin adhered veneers?

While there have been many examples of success using the traditional masonry installation method, the materials used – felt paper, metal lath and scratch coats made of Type S/N masonry mortars are not engineered as part of a complete wall system. Some limitations of this method include:

- Limited installation warranties
- Absence of third party testing to substantiate performance levels
- Water-resistant barriers are compromised, causing water intrusion into the system
- Low bond strength adhesion values of traditional mortars result in delamination
- Lack of freeze/thaw durability
- Field mixed products lead to inconsistencies in mix ratios
- Field labor inconsistencies lead to variable substrate quality
- Substrate is seldom properly wet cured as stipulated prescriptively in the model building codes, resulting in shrinking and cracking

Example of Traditional System

3. What advantages does MVIS offer?

- 15-year labor and materials warranty over exterior steel or wood-framed construction
- 25-year labor and materials warranty over exterior masonry and concrete, and interior wood and steel-framed construction
- Superior adhesive mortars with six to ten times the bond strength of traditional mortars
- Fully monolithic and load-bearing waterproof membrane
- Faster and more economical system using factory blended and bagged, ready to use products
- Mortars provide non-sag – easily adjustable qualities producing easier installation

Water Intrusion

4. What is the TMS code change?

In 2022, The Masonry Society published changes to TMS Codes 402 and 602. These changes are intended to address some of the current issues that arise with the so-called "tried and true" methods of installing masonry veneer..

Delamination of Stone

5. How does the TMS code change impact masonry installations?

Traditional mortars, typically used for stacking brick and block, are often used to adhere thin veneer to a vertical surface. They lack the adhesive strength to properly hold the veneer in place, making the system prone to failures, and leading to dangerous situations with thin brick and stone veneer falling off buildings.

Adhesion Failures

To combat these issues, the 2022 TMS 402-602 code change specifies the mandatory use of a modified adhesive mortar when installing thin masonry veneer and expands suitable the substrates they can be adhered to. In 2024, the IRC (International Residential Code) and IBC (International Building Code) are set to adopt the updated code and the changes will soon roll out across the country.

* See Data Sheets 2104 and 0247 for complete warranty information.

6. Is the MVIS™ more expensive than traditional systems?

No. While the MVIS™ individual components typically cost more per SKU than conventional counterparts, the systems are not comparable of the total installation cost. In most cases, the installed cost is less with the MVIS. **Scan the QR code provided to compare the installed cost of your project.**

- Installation of cement backer board is faster and less expensive than a lath with scratch and brown coat method, saving both labor and material costs
- Traditional systems often use much more product due to waste and inconsistent jobsite mixing
- MVIS mortars offer faster installation of adhered veneer stones and thin bricks
- The cost associated with non-warranted traditional products is often not calculated; LATICRETE offers a fully warranted system, including the cost of materials and labor

Scan for MVIS Cost Savings Calculator

7. Can anyone install the MVIS?

Yes. Any trade can install the MVIS. This includes, but is not limited to:

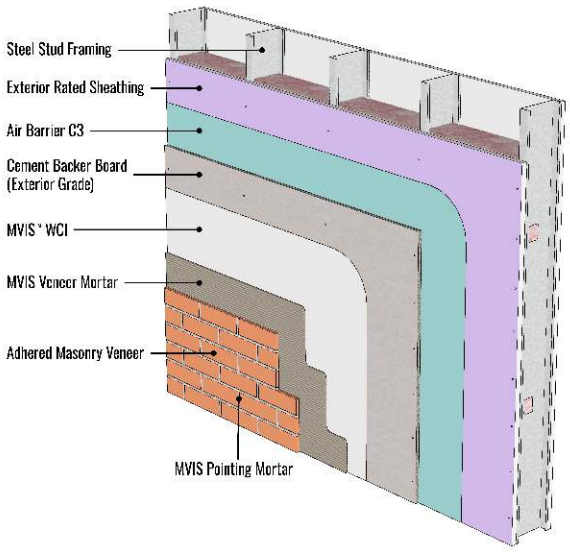
- Brick and stone masons
- Tile installers

Any of these installers can offer the appropriate LATICRETE Warranty.

8. What should I know about drainage systems and continuous insulation??

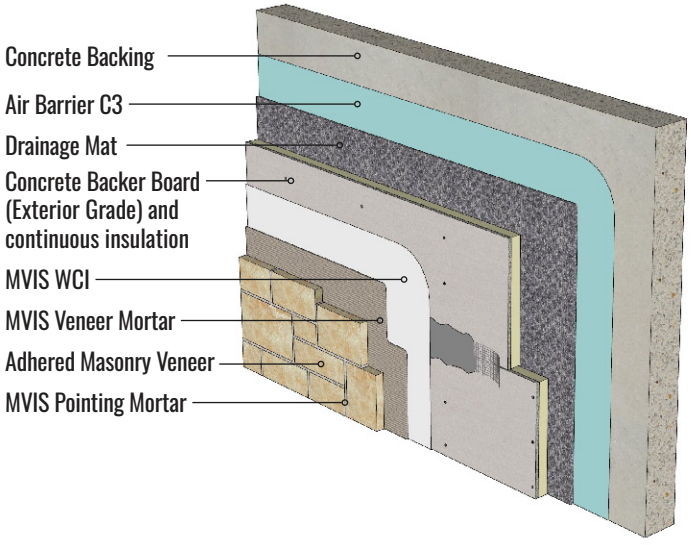
More states and building codes are beginning to outline the use of drainage planes and continuous insulation to increase building efficiency. The MVIS system is adaptable to any number of wall assemblies, giving you the flexibility to meet these new demands in any environment.

Exterior wall



Framed wall with exterior rated sheathing – cement backer board substrate

Exterior wall

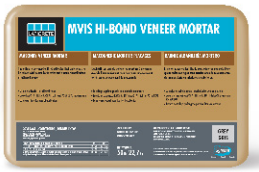


Framed wall with drainage mat, and continuous insulation cement backer board

^United States Patent No. 6,881,768 (and other Patents)

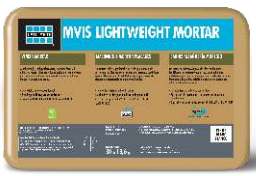
9. What MVIS™ adhesive mortar should I choose for my project?

The MVIS™ product line features four adhesive mortar options, designed specifically for the type of adhered veneer to be installed.



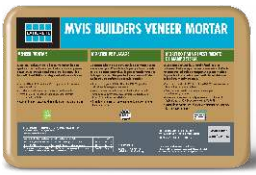
MVIS Hi-Bond Veneer Mortar - 25 or 15 year warranty
The ultimate, polymer fortified, adhesive mortar designed for heavier natural stones or veneers

MVIS Veneer Mortar^ - 25 or 15 year warranty
Patented, versatile polymer fortified mortar designed for the installation of adhered masonry veneers, stone and thin brick featuring superior non-sag capabilities and adjustability



MVIS Lightweight Mortar - 25 or 15 year warranty
Perfect for stack stone application as mortar can be dyed to a selected color

MVIS Thin Brick Mortar - 25 or 15 year warranty
An economical, multi-use, polymer fortified mortar producing maximum coverage for thin brick installations



Builders Veneer Mortar - 1 year product warranty
An economical, polymer fortified mortar designed for residential applications.

10. How do I qualify for the Warranty on my project?

LATICRETE does not offer certification for installers. Instead, to qualify for the MVIS Warranty, the installer must follow the instructions for a complete system. Components of a complete warranted system include, but are not limited to:

- Proper installation and joint preparation of the substrate, including cement backer board over exterior sheathing for framed construction
- Proper flashing of required areas, including penetrations
- 100% coverage using MVIS mortars as per code for exterior veneer
- Use of all MVIS products as stated in warranty document and keep proof of purchases

11. Where can I purchase the MVIS products?

The MVIS products are sold through contractor supply channels of distribution around the country. See laticrete.com/wheretobuy for a distributor near you. Please contact your local MVIS representative for additional information.

^United States Patent No. 6,881,768 (and other Patents)

12. Which thin veneer manufacturers recommend or require the MVIS™?

LATICRETE has many partners that recommend and support MVIS™ for the installation of their products. MVIS Partners value and understand project success depends on quality veneers, installation materials and methods.

13. What architectural resources are available for specifying and recommending MVIS?

LATICRETE offers full and short form architectural specification guidelines plus an entire detail library at laticrete.com/AG. The specifications and details outline recommended installation procedures (flashing and tie-ins) for many typical jobs. Please contact your local distributor or an MVIS representative for additional information. Many LATICRETE Partners also offer installation guidelines specific to their products.

RESOURCES

Digital Training

Watch online tutorials, take a test and receive a certificate of completion through our LATICRETE University e-learning program.

Technical Service Support

Learn how to use and install Adhered Façade and Wall Finishes products on our YouTube channel.

MVIS Cost Savings Calculator

Utilize our online calculator to determine your estimated savings when using the MVIS compared to a traditional lath and scratch installation.

Chiller Plant District Cooling Station

Tampa, Florida, USA

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