



MULTIMAX™ Lite

DS-34082-0725

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

MULTIMAX™ Lite

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

The ultimate, lightweight one-step, polymer fortified, Large and Heavy Tile mortar for interior and exterior installation of ceramic tile, porcelain tile, glass tile, stone, quarry tile, pavers and brick. MULTIMAX Lite features maximum non-sag performance on walls and maximum buildup of up to 3/4" (19 mm) without shrinkage on floors. MULTIMAX Lite "contains no respirable crystalline silica levels that exceed the OSHA action level*" and has a smooth, lightweight, easy-to-trowel consistency and a long open time for ease of installation. The robust formula is fiber-reinforced for maximum strength and durability, exceeding ANSI A118.15 requirements. MULTIMAX Lite utilizes LATICRETE HYDROMATIC CURE CHEMISTRY™. This technology accelerates the hydration process to rapidly consume the water in the system, allowing the material to cure in a predictable manner. MULTIMAX Lite is a LATICRETE functional equivalent to 255 MULTIMAX and exceeds its performance criteria.

Equipped with Microban Anti-Microbial Protection

* 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 www.laticrete.com/silica

Uses

- For wall installations of ceramic tile, porcelain tile, glass tile and stone.
- Can be used as a Large and Heavy Tile mortar for flooring installations.
- Ideal for showers, bathrooms and areas where mastic is used.

Advantages

- Lightweight- 25 lb (11.3 kg) bag has coverage of 50 lb (22.7 kg) traditional mortar
- Equipped with anti-microbial technology to protect the treated article
- Incredible non-sag performance even with heavy tile
- 40 Minute Open Time
- Smooth creamy
- Exceeds ISO 13007-C2TES1P1 classification
- Exceeds ANSI A118.15 HET, A118.4 and A118.11
- ASTM C627 Extra Heavy (TCNA)
- Submerged applications
- High shear bond strength
- Bonds to most substrates
- 25 Year System Warranty
- Excellent Large and Heavy Tile performance
- 3/4" (19 mm) thick without shrinkage
- Walls and thin-bed installations
- Fiber-reinforced for maximum strength and performance
- Ideal for Gauged Porcelain Tile and Gauged Porcelain Tile Panels

Suitable Substrates

- Brick Masonry
- Cement Backer Board
- Cement Plaster/Render
- Cement Terrazzo
- Concrete
- Concrete Block
- Concrete Masonry
- Existing Ceramic Tile and Stone

- Gypsum Plaster
- HYDRO BAN Board
- Mortar Bed
- Non-Water Soluble Cut-Back Adhesive
- Properly Prepared Vinyl Or Other Resilient Tile
- STRATA_MAT
- Exterior Glue Plywood (Interior Only)
- Gypsum Wallboard
- Plastic Laminate

- ANSI A118.11
- ANSI A118.4
- ISO 13007-1
- This product currently has a Product Specific (Type III) Environmental Product Declaration (EPD). The PCR review, life cycle assessment and declaration were independently verified by UL Environment in accordance with ISO 14025, ISO 14040 and ISO 14044.

Approximate Coverage

Trowel Size (Notched):	ft ²	m ²
1/4" x 1/4" (6 mm x 6mm)	75-95	7-8.8
1/4" x 3/8" (6 mm x 9 mm)	50-70	4.6-6.4
1/2" x 1/2" (12 mm x 12 mm)	40-50	3.7-4.6

Shelf Life

Advanced plastic bag provides two (2) year shelf life. (non-rapid versions only) ***High humidity will reduce the shelf life of bagged product.

Limitations

- Not for use directly over particle board, luan, Masonite® or hardwood floors.
- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- 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
- Suitable for use with glass tile only when used as a thin bed adhesive. Maximum adhesive mortar thickness not to exceed 3/16" (4.7mm). Follow glass tile manufacturers installation instructions.

Cautions

- Consult SDS for safety information.
- Some marbles and other natural stone have low flexural strength and might not be suitable for installation over wood floors.
- Use LATAPOXY® 300 Adhesive for installing green marble or water sensitive stone and agglomerates, and resin backed tiles and stones.
- Protect finished work from traffic until fully cured.
- For white and light-colored stones, use MULTIMAX Lite (white).

4. TECHNICAL DATA

Applicable Standard

- ANSI A118.15

Physical Properties

Test	Test Method	Results
28 day Cure 20 cycle Freeze/Thaw Quarry Tile Shear Strength	ANSI A118.15 7.3.3	400-500 psi (2.7 - 3.4 MPa)
30 minute Open Time	ANSI A118.15 5.3.5	100-125 psi (0.7 - 0.8 MPa)
28 day Quarry Tile Shear Strength	ANSI A118.15 7.3.2	400-500 psi (2.7 - 3.4 MPa)
14 day cure 14 day Heat Age Porcelain Tile Shear Strength	ANSI A118.15 7.2.7	500-600 psi (3.4 - 4.1 MPa)
28 day Cure 20 Cycle Freeze/Thaw Porcelain Tile Shear Strength	ANSI A118.15 7.2.6	425-475 psi (2.9 - 3.2 MPa)
7 day Cure 7 day Water Immersion Shear Strength	ANSI A118.15 7.1.3	325-425 psi (2.2 - 2.9 MPa)
7 day Porcelain Tile Shear Strength	ANSI A118.15 7.2.3	500-600 psi (3.4 - 4.1 MPa)
1 day Porcelain Tile Shear strength	ANSI A118.15 7.2.2	225-275 psi (1.5 - 1.8 MPa)
14 day Cure 14 Day Heat Cure wall tile shear strength	ANSI A118.15 7.1.4	550-600 psi (3.7 - 4.1 MPa)
7 Day Wall Tile Shear Strength	ANSI A118.15 7.1.2	525 -575 psi (3.6 - 3.9 MPa)
7 day Water Immersion Shear Strength, Porcelain Mosaic Tile	ANSI A118.15 7.2.4	350-450 psi (2.41- 3.10 MPa)
28 day Shear Bond, Porcelain Mosaic Tile	ANSI A118.15 7.2.5	500-600 psi (3.45- 4.14 MPa)
28 day Shear Bond, Quarry Tile/Plywood	ANSI A118.11 4.1.1.2	180-250 psi (1.24- 1.72 MPa)
Sag on Wall	ANSI A118.15.6.0	0 in. (0 mm)
28 day Cure Tensile Adhesive Strength	ISO 13007-4.4 4.2	1.5-2.0 Mpa
7 day Cure 21 day Water Immersion Tensile Adhesive Strength	ISO 13007-4.4 4.3	1.0-1.5 Mpa

14 day Cure 14 Day Heat Age Tensile Adhesive Strength	ISO 13007-4.4 4.4	1.5-2.0 MPa
7 day Cure 21 Day Water Immersion 25 Freeze/Thaw Cycle Tensile Adhesive Strength	ISO 13007-4.4 4.5	1.0-1.5 Mpa
Transverse Deformation	ISO 13007-4.4 4.5	3.0-3.5

Working Properties

Property Name	Property Value
Open Time @ 70° F (21°C)	40 Minutes
Pot Life @ 70° F (21°C)	4 hours
Time To Traffic	24 hours

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 latex fortified underlayment or leveling mortar to provide a proper finish. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. All slabs must be plumb and true to within 1/4" (6 mm) in 10 ft (3 m).

Note: MULTIMAX Lite does not require a minimum cure time for concrete slabs. 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 EJ-171 "Movement Joints—Vertical & Horizontal". Do not cover expansion joints with mortar.

1. Installer must verify that deflection under all live, dead and impact loads of 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 sheet edges at the perimeter; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

UNDERLAYMENT: 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" (3mm) 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".

Mixing:

1. Use approximately 5.0 - 5.6 qts. (4.7 - 5.3 L) of water for 25 lbs (11.3 kg) of powder. (Required water ratio may vary within this range based upon quantity of MULTIMAX Lite mixed and site conditions)
2. Place clean, potable water into a clean pail. (For best results, start to mix with 75% of the water (4.0 - 4.3 qts. / 3.8 - 4.1 L) in the pail, then add the remaining additional 25% of the water as you are mixing to achieve a creamier mix faster.
3. Slowly add MULTIMAX Lite powder to the water, then start to add the additional water on top of the mix.
4. Mix with a slow-speed drill to a smooth, trowelable consistency. (For best results use a spiral blade or similar)
5. Allow mortar to slake for 5 minutes.
6. Remix without adding any more water or powder.

During use, stir occasionally to keep mix creamy & fluffy.

DO NOT temper with water.

Mixing with PERMACOLOR® Select Color Kits

(MULTIMAX Lite white only) Requires (4) PERMACOLOR® Select Color Pods. Place water in a clean mixing container. Remove color packets from the bags. The internal bag is a water dispersible packet – when using the 25 lbs. (11.3 kg) bag of MULTIMAX Lite, drop all color packs directly in to water in clean mixing container. Mix with a drill mixer until pigment is dispersed evenly in container and the dispersible packet is no longer visible. Add MULTIMAX Lite and mix as directed above. Please note that additional water may be necessary when using PERMACOLOR Select color Kits.

Application:

Walls: Key materials into substrate thoroughly. Comb on additional mortar with the notched side, use 1/4" x 3/8" (6 mm x 9 mm) notched trowel. Back butter all tile and stone 8" x 8" (200 mm x 200 mm) or larger to provide full bedding of the veneer.

Large Heavy Tile: Key the mortar to the substrate with the flat side of the trowel. Press firmly to work into the surface. Comb on additional mortar with the notched side. Use 1/2" x 1/2" (12 mm x 12 mm) or 3/4" (18 mm) half loop trowel. Grouting: Grout installation after a minimum of 24 hours curing time at 70°F (21°C). Grout with PERMACOLOR® Select, PERMACOLOR®Λ Grout, SPECTRALOCK® PRO Premium Grout†, SPECTRALOCK PRO Grout†, 1500 Sanded Grout or 1600 Unsanded Grout gauged with 1776 Grout Enhancer or with water. Cleaning Clean tools with water.

6. AVAILABILITY AND COST

Availability

LATICRETE materials are available worldwide.

For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at

laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

- 25 Year System Warranty (US) (English)
- 1 Year Product Warranty (US) (English)
- Lifetime System Warranty (US) (English)

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:

Toll Free: 1.800.243.4788, ext. 1235

Telephone: +1.203.393.0010, ext. 1235

Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at laticrete.com.

10. FILING SYSTEM

Additional product information is available on our website at laticrete.com. The following is a list of related documents:

- DS 230.13: LATICRETE Product Warranty
- DS 230.05: LATICRETE 5 Year System Warranty (United States and Canada)
- DS 230.10: LATICRETE 10 Year System Warranty (United States and Canada)
- DS 230.15: LATICRETE 15 Year System Warranty – For Steel or Wood Framed Exterior Facades (United States and Canada)
- DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)
- DS 230.99: LATICRETE Lifetime System Warranty

LATICRETE International, Inc.

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