



# MULTIMAX™ LITE

DS-328.0-1118

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

MULTIMAX™ LITE

## 2. MANUFACTURER

LATICRETE International, Inc.

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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" (19mm) without shrinkage on floors. MULTIMAX LITE is free of silica sand and has a smooth, lightweight, easy-to-trowel consistency and a long open time for ease of installation. The robust formula is reinforced with Kevlar® 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.

### 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
- Contains no silica sand.
- Smooth creamy, lightweight formula.
- Exceeds ANSI A118.4, A118.11 and A118.15.
- Exceeds ISO 13007-C2TES1P1 classification
- Excellent Large and Heavy Tile performance, 3/4" (19 mm) thick without shrinkage
- Superior for exterior and submerged applications.
- ASTM C627 Extra Heavy (TCNA)
- High shear bond strength.
- Bonds to most substrates
- One mortar for Large and Heavy Tile, walls and thin-bed installations
- 25 Year System Warranty\*\*.
- Reinforced with Kevlar® for maximum strength and performance

### Suitable Substrates

- STRATA\_MAT (\* Interior use only)
- Existing Ceramic Tile and Stone
- Plastic Laminate (\* Interior use only)
- Gypsum Plaster (\* Interior use only)
- Cement Terrazzo
- Non Water Soluble Cut-Back Adhesive (\* Interior use only)
- Properly Prepared Vinyl Or Other Resilient Tile (\* Interior use only)
- HYDRO BAN Board
- Exterior Glue Plywood (\* Interior use only)
- Concrete
- Gypsum Wallboard (\* Interior use only)
- Mortar Bed
- Cement Backer Board (\*\*Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use)
- Concrete Block
- Concrete Masonry
- Brick Masonry
- Cement Plaster/Render

### Approximate Coverage

	ft <sup>2</sup>	m <sup>2</sup>
Wall Application 4.9 qts (4.6L) of water		

	ft <sup>2</sup>	m <sup>2</sup>
1/4" x 3/8" (6 mm x 9 mm) notched trowel	50-60	4.6 - 5.5
Large and Heavy Tile Application 5.1 qts (4.8 L) of Water		
1/2" x 1/2" (12 mm x 12 mm) notched trowel	40 - 50	3.7 - 4.6
Thin Bed Applications—5.3 qts (5 L) of Water		
1/4" x 1/4" (6 mm x 6 mm) notched trowel	85 - 95	7.9 - 8.8
1/4" x 3/8" (6 mm x 9 mm) notched trowel	60 - 70	5.5 - 6.5

### 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 (see Section 10 FILING SYSTEM).
- 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.
- During cold weather, 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
- ANSI A118.11
- ANSI A118.4
- ISO 13007-1

### Physical Properties

Test	Test Method	Results
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)

Test	Test Method	Results
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 A118.4.6.0	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. New concrete slabs shall be damp cured and 28 days old before application. All slabs must be plumb and true to within 1/4" (6 mm) in 10 ft (3 m). 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. 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. 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: For walls and Large Heavy Tile applications:** Place clean, potable water into a clean pail. Use approximately 4.8-5.0 qts (4.5-4.7 L) of water for 25 lbs (11.3 kg) of powder. **For Thin Bed applications:** Use approximately 5.2-5.4 qts (4.9-5.1 L) of water for 25 lbs (11.3kg) of powder. Slowly add MULTIMAX LITE. Mix with a mixer to a smooth, trowelable consistency. Allow mortar to slake for 5 minutes. Remix without adding any more water or powder. During use, stir occasionally to keep mix fluffy. DO NOT temper with water. **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® A 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](http://laticrete.com)

### Cost

Contact a LATICRETE Distributor in your area.

## 7. WARRANTY

See 10. FILING SYSTEM:

- LATICRETE 25 Year Tile & Stone System Warranty
- LATICRETE 25 Year System Warranty Over LATICRETE® SUPERCAP® Products (United States and Canada)
- LATICRETE Product Warranty
- LATICRETE 15 Year Tile & Stone System Warranty

- LATICRETE Lifetime System Warranty (United States and Canada)

## 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](http://laticrete.com).

## 10. FILING SYSTEM

Additional product information is available on our website at [laticrete.com](http://laticrete.com). The following is a list of related documents:

- DS 230.13: LATICRETE Product Warranty (United States and Canada)A component of: DS 230.15APD: LATICRETE 15 Year Tile & Stone System Warranty – For Steel or Wood Framed Exterior Facades (United States and Canada) DS 025.0APD: LATICRETE 25 Year Tile & Stone System Warranty (United States and Canada) DS 230.99: LATICRETE Lifetime Tile & Stone System Warranty (United States and Canada)
- 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

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