



# VersaMortar

## Product Data Sheet

### DESCRIPTION

VersaMortar is a proprietary, pre-blended and pre-mixed mortar for use in restoration, renovation and new construction projects.

### FEATURES

- Natural Lime-based
- Anti-cracking
- Energy efficient
- Durable, long-lasting
- Mitigates efflorescence
- Applies easily
- Zero VOC, non-toxic, SCAQMD compliant.

### COLOR

WHITE

### PRODUCT PARTICLE SIZE

3.0 mm

### PACKAGING

50 LB

### COVERAGE

VersaMortar covers approximately 15 square feet per 50 lb. bag at 1" (inch) thickness per coat.

### PURPOSE

VersaMortar is a premium quality Lime-based mortar used as an alternative to Portland cement-based mortars commonly used in restoration, renovation and new construction projects.

The product is made from premium quality limestone and select natural pozzolans.

VersaMortar can be used as a fill-coat mortar, stone or earth wall injection mortar, leveling screed mortar, and other versatile applications such as a binder for hemp-lime applications.

VersaMortar is a highly versatile material that functions to mitigate moisture entrapment in undercoats due to its natural composition and elevated pH, allowing the ability to counteract against the formation and proliferation of molds, mildew and bacteria.

### EXPERIENCED INSTALLERS

VersaMortar is intended to be applied by professional applicators who demonstrate experience and craftsmanship and meet the application requirements of BIOLIME product endorsement.

### SUBSTRATE

Substrates that apply:

- Adobe
- Rock / Stone
- Concrete Masonry Unit (CMU)
- Aggregated wall surfaces
- Rough-Cast Stone
- Brick & Tile masonry

Consult with BIOLIME for specific recommendations concerning non-traditional wall systems or surfaces.

### TECHNICAL INFORMATION

Consult our Technical Services Department for specific recommendations concerning all other applications.

Consult [www.biolime.com](http://www.biolime.com) for additional information about products and systems and for updated literature.

### HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets (SDS) and product label information for this product prior to use.

The SDS can be obtained by visiting [www.biolime.com](http://www.biolime.com). Use only as directed.

Lime is a naturally caustic (rapid absorption) material and because of its elevated pH, creates an alkaline reaction when combined with water. Protect the eyes and skin from exposure. Keep out of reach of children. Dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Avoid irritation by reducing exposure to dust. Use in a well-ventilated area or provide sufficient local ventilation. Do not ingest. When mixing product wear a NIOSH/MSHA-approved dust respirator and always wear eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call a physician.

### DISCLAIMER

BIOLIME shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods.

# BioLime VersaMortar

## Application

### PREPARATION

Surfaces should be clear and clean of any inconsistent parts, dust, oils, mildew, organic matter, salt efflorescence or any other loose material which should hinder proper adhesion to the applied surface.

Highly absorbent substrates must be spray-misted and moistened (not saturated) with clean water using a tank sprayer prior to application to allow the product to properly bond to the substrate.

### MIXING

VersaMortar is a pre-blended product and requires only mixing with water on the job-site.

VersaMortar requires **5.5 quarts of water per 50Lb bag**. (Use manufacturer's measuring bucket).

Mix the product with a heavy duty mortar mixing drill equipped with proper mixing paddle as shown.

BioLime recommends the use of a 2-speed drill with low torque capacity, such as a Milwaukee 1/2" Hole-Hawg® Drill 300/1200 RPM (as shown) and the CS Unitec MG 120 4.5" helical mixing paddle (as shown).

1. Fill the mortar manufacturer's measuring bucket with clean water to the referenced product margin line.
2. In a clean 6-gallon plastic bucket, pour half of the measured water.
3. While stirring the water at low RPM, add mortar from the bag at a rate to prevent clumping of the material. Continue adding water from the measuring bucket and dry mortar until bag is empty.
4. Once the dry powder is wetted, mix for additional 3 minutes maximum. Allow to rest 5 minutes to fully hydrate and then stir to relax the batch. Over-mixing mortar will cause loss of strength. Keep bucket covered to extend working time to about 1 hour.
5. Make sure to avoid mixing times exceeding 3 minutes as a significant drop in strength can occur.



Milwaukee 1/2" Hole-Hawg® Drill  
300/1200 RPM



CS Unitec MG 120 4.5"  
Helical Mixing Paddle

### APPLICATION

Consult with BIOLIME for specific recommendations concerning non-traditional wall system applications and the BIOLIME website, [www.biolime.com](http://www.biolime.com), for additional information about products and systems and for updated literature.

1. Ensure surface is free of construction dust and debris.
2. Do not prewet non-absorbent surfaces.
3. Prewet mineral-based surfaces relative to their absorbency. Highly absorbent surfaces require more hydration. Once water has evaporated from the surface, application may begin.
4. Apply VersaMortar with a stucco sprayer hopper gun or by trowel to a desired thickness up to 12" (inches) per coat.
5. Trowel surface smooth and in plane if desired.

### CURING

Moist-cure for 5 days by flooding surfaces with clean water at 0 PSI (no pressure) To ensure complete chemical curing.

**IMPORTANT:** This technique will ensure complete hydration of the "active" pozzolans in the mortar to prevent the top layer color coat from streaking from rainfall, following project completion.

### PROCEDURE:

1. Begin moisture-curing using "appearance-based determination" for each mortar layer.
2. As applied mortar dries, the appearance changes from dark to light. When dark, it is visibly damp. As water evaporates from the layer, it becomes lighter in contrast to the damp areas. In mid-transition between damp and dry, the surface appears mottled. Once mottling disappears, the moisture-curing cycles can begin.
3. Weather conditions and mortar layer thickness affect how quickly the mortar transitions from damp to dry. In dry weather, moisture-curing cycles might begin the day of application while in humid weather the cycles might start the following day. Appearance-based determination ensures proper sequencing of the moisture-curing coats for each applied layer of mortar.
4. Once moisture-curing begins, flood all surfaces including terminations at soffits, inside and outside corners, and window/door returns with clean water. This constitutes one moisture-curing cycle. Moisture-curing cycles continue for the stated number of days for each installed layer of plaster.

### Note:

RAIN: PROTECT FRESHLY APPLIED MORTAR SURFACE.  
FROST: DO NOT APPLY IF CONDITIONS EXIST.

# BioLime VersaMortar

## Technical Data

Property	ASTM Test Method	Result
Freeze-thaw	IN-HOUSE	No deleterious effects after 90 cycles
Water Resistance	IN-HOUSE	No deleterious effects after 14 days
Water Vapor Transmission	ASTM D 1653	Results pending (Dec. 2020)
UV Exposure	IN-HOUSE	210 hours of exposure - Unaffected
Accelerated Aging	IN-HOUSE	25 cycles of drying and soaking
VOC	SCAQMD METHOD 304	-0.2 wt%
VOC	ASTM D 2369	-9 g/mL
Accelerated Weathering	IN-HOUSE	25 cycles of drying and soaking
Mildew Resistance	IN-HOUSE	No growth during 60 day exposure period
Water Resistance	IN-HOUSE	No deleterious effects after 90 days exposure
Fire Resistance	IN-HOUSE	Class 1A: Non-combustible
Density	D1475	1.81 g/cc

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

### WARRANTY

BIOLIME warrants this product to be free from manufacturing defects and to meet the technical properties on the current Product Bulletin for **10 years**, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BIOLIME MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BIOLIME. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BIOLIME WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BIOLIME's present knowledge and experience. However, BIOLIME assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BIOLIME reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by **endorsed** and qualified experts.

For the most current version of this literature, please visit our website at [www.biolime.com](http://www.biolime.com).