Lime Putty Finish

Product Data Sheet

DESCRIPTION
BIOLIME LIME PUTTY FINISH is a proprietary, premium quality pre-mixed finish coat plaster for new construction and renovation projects.

FEATURES

- All Natural
- Anti-microbial
- Neutralizes moisture
- Durable, long-lasting
- Fights mold, mildew
- Distinctive luminesence
- Applies easily
- Zero VOC, non-toxic, SCAQMD compliant.

COLOR
WHITE

MAX PARTICLE SIZE

- 0.2 mm *"Ultrafine"*

PACKAGING
25 KG / 5 GAL

COVERAGE
BIOLIME LIME PUTTY FINISH covers approximately 135 square feet per 1/16" coat.

PURPOSE
BIOLIME LIME PUTTY FINISH is a superior quality lime putty finish plaster tailored for restoration, new construction and renovation projects.

The product is made from aged, slacked, premium quality limestone, select natural pozzolans and natural plant-based derivatives.

BIOLIME LIME PUTTY FINISH is designed for Interior applications over BIOLIME BOND.

BIOLIME LIME PUTTY FINISH is a highly versatile material that functions to mitigate moisture entrapment in sub-surfaces 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
BIOLIME LIME PUTTY FINISH 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:

- Drywall / Sheetrock
- Smooth-face concrete
- Adobe; Clay
- Concrete Masonry Unit (CMU)
- Cement Stucco
- Previously painted surfaces

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 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. Use only as directed.

Lime is a naturally caustic (rapid absorption) material and because of its elevated pH, creates a 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 Lime Putty Finish

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
BIOLIME LIME PUTTY FINISH is a pre-blended product.

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 Milwaukie 1/2" Hole-Hawg® Drill 300/1200 RPM (as shown) and the CS Unitec MG 120 4.5" helical mixing paddle (as shown).

1. To reduce the viscosity of the product and to avoid the scraping of plastic from the inside of the bucket lining during machine drill mixing.
2. Mix with a helical mixing paddle (as shown).
3. Make sure to avoid mixing times exceeding 3 minutes as a significant drop in strength can occur.
4. Prior to applying, leave it stand for at least 12 hours. Then, prior to application on job site – mix again in order to have good consistency throughout the blend.
5. Keep bucket covered to extend working time.

Milwaukie 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.

1. Ensure surface is free of construction dust and debris or loose particulate.
2. Prewet masonry surfaces relative to their absorbency. Highly absorbent surfaces require more hydration. Once water has evaporated from surface, with substrate holding and retaining moisture, application may begin.
3. Apply plaster with even distribution to a maximum 1/16-inch layer thickness.
4. Trowel surface smooth. Texture or burnish as desired.

CURING
For every 1/16" (2mm) of thickness, moist-cure for 2 (two) cycles by flooding entire surface with cool, clean water at 0 PSI (no pressure).

Example: a 1/8" coat will require 4 (four) cure cycles.

CURE CYCLE: A cure cycle begins when the entire surface is dry, then hydrated. This technique ensures the "active" pozzolans in the mortar bond together as a whole, hardening in the process.

PROCEDURE:

1. Begin the first cure cycle using “appearance-based determination” for each plaster layer.
2. As applied plaster dries, the appearance of the plaster 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 and the entire surface area is dry, the moisture-curing cycles can begin by hydrating the surface.
3. Weather conditions and plaster layer thickness affect how quickly the plaster 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 plaster.
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 based on layer thickness, as noted in **CURING.**

Note:
RAIN: PROTECT FRESHLY APPLIED PLASTER SURFACES
FROST: DO NOT APPLY IF CONDITIONS EXIST.

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Technical Data

Property	ASTM Test Method	Result
Compressive Strength	ASTM C 109	7-day: 305.4 psi
Flexural Strength	ASTM C 78	105 MPa
Adhesion Strength	ASTM C 1583 pull-off	7-day concrete block: 63 psi | 7-day porcelain: 45 psi
Solar Reflectance	ASTM C 1549 ASTM	0.88
Water Vapor Transmission	ASTM E 96	74.46 perms
Freeze-thaw	IN-HOUSE	No deleterious effects after 90 cycles
Water Resistance	IN-HOUSE	No deleterious effects after 14 days
Permeance (EU)	UNI 9233	μ = 18
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
Mildew Resistance	IN-HOUSE	No growth during 60 day exposure period
Water Resistance	IN-HOUSE	No deleterious effects after 90 days exposure
Salt Spray Resistance	IN-HOUISE	No deleterious effects after 1000 hours exposure
Fire Resistance	IN-HOUSE	Class 1A: Non-combustible
Density	ASTM D1475	1.90 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.

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