



Premium Exterior System

SECTION 09225

LIME PLASTER

PART 1 GENERAL

1.01 SECTION INCLUDES

1. Lime plaster finish system installed over solid substrates including cement brown coat.
2. Section []: Wall Substrate Surface.

1.02 RELATED SECTIONS

1. Section 03300 – Cast-In-Place Concrete.
2. Section 04220 – Masonry Units.
3. Section 06110 – Wood Framing.
4. Section 09205 – Metal Lath.
5. Sections 09220 – Portland cement Plaster.

1.03 REFERENCES

A. American Society for Testing and Materials

1. C 25 – Test Methods for Chemical Analysis of Limestone, Quicklime and Hydrated Lime.
2. ASTM C 926 – Application of Portland Cement-Based Plaster.
3. ASTM C 897 – Aggregate for Job-Mixed Portland Cement-Based Plaster.
4. ASTM C150 – Portland Cement.
5. ASTM D 2486 – Finishing Hydrated Lime.

6. ASTM C 206 – Standard Specification for Finishing Hydrated Lime.

B. Portland Cement Association

- a. **PCA – Portland Cement Plaster (Stucco) Manual.**

1.04 SUBMITTALS

- A. Certification of compliance of materials with product specifications.**
- B. Manufacturer’s written specifications, proportion mixes, and installation instructions for factory-prepared finish materials.
- C. Evidence of applicator’s experience including project identification with names of Owner and Architect/Engineer.
- D. Submit samples, at least 8” x 11” for approval prior to commencement of work. Approved sample shall be 24” x 24” available at the job site with final sign off by the architect and/or the owner.

1.05 QUALITY ASSURANCE

1. Installer Qualification: Company specializing in performing work of this Section with a minimum of two (2) years of documented experience. Include list of at least 3 completed projects of similar scope with project names and addresses and contact information of architects, general contractors, and owners.
2. Installer shall extend typical one-year warranty on work performed.

1.06 DELIVERY, STORAGE, AND HANDLING

1. Deliver manufactured materials in original packages or containers, fully identified with manufacturer’s labels intact and legible.
2. Inspect materials upon delivery and immediately report to Architect any damaged or defective materials.
3. Store materials in a sheltered area with minimum ambient temperature of 45° F (7° C).

1.07 PROJECT CONDITIONS

1. Environmental Requirements: Do not apply lime plaster when substrate or ambient air temperatures is under 45° F (5° C) or over 86° F (30°C).
2. Maintain these conditions 24 hours before, during and 48 hours after installation of lime plaster.
3. Provide temporary enclosures in areas where work is being performed.
4. Restrict traffic from area where lime plaster has been applied during initial curing,

PART 2 PRODUCTS

2.01 MANUFACTURERS

1. Acceptable Manufacturer: Mediterranean Colors, LLC – 10 Liberty Ship Way – Sausalito – CA – 94965 Phone: 1 877 326 6872 E-mail: info@medcolors.com.

2. Substitutions: To insure the quality is maintained, no substitute should be permitted.

2.02 MATERIALS

1. Scratch / Brown Materials
 1. Portland Cement: ASTM C150 Type I
 2. Plastic Cement: ASTM C1328 Type M or S.
 3. Hydrated lime for finishing purposes: ASTM C206 Type S
 4. Aggregate: ASTM C897.
 5. Water: Clean, fresh, potable and free of mineral or organic matter.
2. Lime Plaster Finish Materials
 1. Ready-Mix Base Coat Plaster: UNILIME.
Mix and apply in accordance with manufacturer's instructions.
 2. Ready-Mix Finish Coat Plaster: [MURALIME] [MINERA] [TRADILIME] [TRADILIME SF]. Mix and apply in accordance with manufacturer's instructions.

2.03 ACCESSORIES

1. ARROW 45: Alkaline-resistant fiber-glass mesh reinforcing corners at openings. Install in accordance with manufacturer's instructions.
2. COMBO 90: Square nose corner PVC Bead (8 feet in length) with fiber glass flanges; use unless bull nose corners are indicated. Install in accordance with manufacturer's instructions.
3. GMESH: Alkaline-resistant standard fiber glass mesh. Install in accordance with manufacturer's instructions.

2.04 MISCELLANEOUS MATERIALS

1. Mixing Water: Clean, fresh, potable and free of mineral or organic matter.

2.05 EXTERIOR PREMIUM SYSTEM

1. ARROW 45.
2. COMBO 90.
3. GMESH
4. UNILIME: [Floated] [Brushed]
5. [MURALIME]: [Polished] [Satin] [Mat] [Rustic] [Lime Wash]
6. [MINERA]: [Polished] [Satin] [Mat] [Freestyle] [Blocks]
7. [TRADILIME]: [Pitted] [Sand Float] [Rustic] [Blocks]
8. [TRADILIME SF]: [Pitted] [Sand Float] [Rustic] [Blocks]
9. Color: [_____] [As shown on Drawings] [Standard color as selected by Architect] [Custom color as selected by Architect].

PART 3 EXECUTION

3.01 EXAMINATION

1. Verify the suitability of existing conditions before starting work. Do not begin work of this Section until unsatisfactory conditions have been corrected.
2. Verify that substrates are free of dust, loose particles, oil, and other foreign material that could affect bonding.
3. Secure grounds, screeds, corner beads, casing beads, plaster stops, and accessories.

3.02 PREPARATION

1. Protect surrounding areas from potential damage.
2. Saturate substrate with a hose letting water dripping top to bottom one day before finishing. Dampen substrate again before application.
3. Protect adjacent surfaces and items that are not to receive plaster finish, but which cannot be removed, from finish work. Use masking materials that will not damage protected items and surfaces. Leave tape 1/16" from the edge of plaster surface for easy, clean removal.
4. Clean concrete surface of foreign materials. Use pressure wash with hot water.
5. Roughen smooth surfaces

3.03 INSTALLATION

A. Control and Expansion Joints

1. Installation of accessories: Section 09200 "Metal Laths & Trims".
2. Locate control and expansion joints every 12 feet.
3. Scribe contraction joints every 12 feet in each direction by cutting through 2/3 of the plaster maximum depth, neatly, in straight lines.
4. Install control and expansion joints with specified device.
5. Coordinate joint placement with other related work.

B. Scratch / Brown Coat

1. Number of coats: Provide minimum two coats: cement plaster scratch coat (3/8") and cement plaster brown coat (3/8") application over metal lath.
2. Interrupt any plaster only at junctions of plaster planes, at openings, or at expansion joints.
3. Apply scratch coat with sufficient material and pressure to form full keys through and to embed metal base. When firm, score in a horizontal direction.
4. Apply brown coat to scratch coat, flat to true surface, and free of imperfections.
5. Compress brown coat at initial set to ensure adequate bonding with the scratch coat.

C. Accessories & Base Plaster

1. Prepare all materials in accordance with manufacturer's recommendations.
2. Reinforce all corners at openings with ARROW 45. Place the reinforcing mesh around each corner and secure with a tight coat of base plaster UNILIME. Let cure for 24 hours.
3. Provide each square nose corner with COMBO 90. Place the bead over the corner and secure with a tight coat of base plaster UNILIME. Let cure for 24 hours.
4. Unilime is applied to the face of the substrate. Manually or with a gun, apply an even coat of Unilime approximately (1/8") in an area slightly larger than the 39" (1 m) width of the reinforcing mesh.
5. Immediately install the GMESH into the base coat, embedding it with a trowel from the center and outward to its edges, cutting off any accumulated excess base coat. This method keeps the mesh laying flat, ensuring consistent embedment into the base coat. In the event that any portion of the embedded mesh pattern is still visible, skim coat to hide the pattern following the initial set. Let cure for 24 hours.
6. Damp the substrate with water and let the moisture leave the surface before applying ANY finish.

D. Finish Plaster

1. eco stucco™ MURALIME SYSTEM
 - a. [Satin: 2 coats 1/16" to 3/32"]
 - Apply first coat to cover base,
 - Let it dry to touch,
 - Apply second coat (may be a different color),
 - Let it dry to touch,
 - Sponge float knocking down imperfections,
 - Close with a stainless steel or a plastic trowel.
 - Let set and polish with trowel at a 5° angle,
 - b. [Mat: 2 coats 1/16" to 3/32"]
 - Apply first coat to cover base,
 - Let it dry to touch,
 - Apply second coat (may be a different color),
 - Let it dry to touch,
 - Sponge float knocking down imperfections,
 - Close with a stainless steel or a plastic trowel.

- c. [Rustic]
 - Apply a single coat (1/16”),
 - Let it dry to touch,
 - Sponge float knocking down imperfections,
 - Let set and knock excess sand off with dry float.
- d. [Lime Wash: 2 coats]
 - Scrape the base with a putty knife knocking-off excess sand,
 - Apply first coat with a large brush,
 - Let it dry to touch,
 - Apply second coat with a large brush (may be a different color).

2. eco stucco™ MINERA SYSTEM

- a. [Satin]
 - Apply first coat (1/16”),
 - Let it dry to touch,
 - Sponge float knocking down imperfections,
 - Close with a stainless steel or a plaster trowel,
 - Let set and polish with trowel at a 5° angle,
- b. [Mat]
 - Apply first coat (1/16”),
 - Let it dry to touch,
 - Apply second coat (1/16”),
 - Let it dry to touch,
 - Sponge float knocking down imperfections,
 - Close with a stainless steel or a plastic trowel.
- c. [Freestyle]
 - Apply one single coat (1/8”),
 - Let it dry to touch,
 - Sponge float knocking down imperfections,

- Close the surface randomly leaving open areas.
- d. [Blocks]
- Apply first coat (1/16”),
 - Let it dry to touch,
 - Apply second coat (1/16”),
 - Let it dry to touch,
 - Sponge float knocking down imperfections,
 - Close with a stainless steel or a plastic trowel,
 - Score horizontal & vertical lines emulating ashlar effect.
3. eco stucco™ TRADILIME SYSTEM
- a. [Pitted]
- Apply a single coat (1/8”),
 - Let it dry to touch,
 - Sponge float knocking down imperfections,
 - Close with a stainless steel or a plastic trowel.
- b. [Rugged]
- Apply a single coat (1/8”),
 - Let it dry to touch,
 - Sponge float knocking down imperfections,
 - Lightly close with a stainless steel trowel.
- c. [Sand Float]
- Apply a single coat (1/8”),
 - Let it dry to touch,
 - Sponge float knocking down imperfections,
- d. [Blocks]
- Apply a single coat (1/8”),
 - Let it dry to touch,
 - Sponge float knocking down imperfections,

- Close with a stainless steel or a plastic trowel.
- Score horizontal & vertical lines emulating ashlar effect.

4. eco stucco™ TRADILIME SF SYSTEM

a. [Pitted]

- Apply a single coat (1/8"),
- Let it dry to touch,
- Sponge float knocking down imperfections,
- Close with a stainless steel or a plastic trowel.

b. [Sand Float]

- Apply a single coat (1/8"),
- Let it dry to touch,
- Sponge float knocking down imperfections,

c. [Rustic]

- Apply a single coat (1/8"),
- Let it dry to touch,
- Sponge float knocking down imperfections,
- Let set and knock excess sand off with dry float.

d. [Blocks]

- Apply a single coat (1/8"),
- Let it dry to touch
- Sponge float knocking down imperfections,
- Close with a stainless steel or a plastic trowel.
- Score horizontal & vertical lines emulating ashlar effect.

3.04 CLEANING AND PROTECTION

1. Maintain moist conditions by keeping façade shaded for at least 48 hours following application.
2. Cure scratch coat for a minimum of 7 days and maintain brown coat for a minimum of 21 days before applying the finish.
3. Point up around trim and other locations where plaster abuts dissimilar materials.
4. Remove temporary coverings used to protect adjacent surfaces.
5. Clean and repair adjacent surfaces and items soiled or damaged during work in this Section.

3.05 SCHEDULE

1. Plaster Style A:
 1. Location: [] [As indicated on drawings].
 2. Design: []
 3. Finish: []
 4. Texture: []
 5. Color: []
2. Plaster Style A:
 1. Location: [] [As indicated on drawings].
 2. Design: []
 3. Finish: []
 4. Texture: []
 5. Color: []