



Interior System

SECTION 09225

LIME PLASTER

PART 1 GENERAL

1.01 SECTION INCLUDES

- A Lime plaster finish system installed over solid substrates including gypsum board.

1.02 RELATED SECTIONS

- A Section 03300 – Cast-In-Place Concrete.
- B Section 04220 – Masonry Units.
- C Section 09210 – Gypsum Plaster.
- D Sections 09220 – Portland cement Plaster.
- E Section 09260 – Gypsum Board Assemblies: Preparation of substrate.
- F Section 0990 – Paint and Coatings: Primer application.

1.03 REFERENCES

- A C 25 – Test Methods for Chemical Analysis of Limestone, Quicklime and Hydrated Lime.
- B ASTM D 2486 - Standard Specification for Finishing Hydrated Lime.
- C ASTM D 3363 - Standard Test Method for Film Hardness by Pencil Test; 1992a.
- D ASTM E 84 - Standard Test method for Surface Burning Characteristics of Building Materials; 1999.

1.04 SUBMITTALS

- A Product Data: Provide manufacturer's technical data on products specified, including installation instructions.
- B Samples: Submit samples, 12 x 12 inches for approval prior to commencement of work. Approved sample shall be available at the job site with final sign off by the architect and/or the owner.

1.05 QUALITY ASSURANCE

- A 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.
- B Installer shall extend typical one-year warranty on work performed.

1.06 DELIVERY, STORAGE, AND HANDLING

- A Deliver materials in original packaging with manufacturer's labels identifying manufacturer and product.
- B Inspect materials upon delivery and immediately report to Architect any damaged or defective materials.
- C Store materials in a sheltered area with minimum ambient temperature of 45° F (7° C).

1.07 PROJECT CONDITIONS

- A 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).
- B Maintain these conditions 24 hours before, during and 48 hours after installation of lime plaster.
- C Provide temporary enclosures in areas where work is being performed.
- D Restrict traffic from area where lime plaster has been applied during initial curing,

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A Acceptable Manufacturer: Mediterranean Colors, LLC – 10 Liberty Ship Way – Sausalito – CA – 94965 Phone: 1 877 326 6872 E-mail: info@medcolors.com.
- B Substitutions: Not permitted.

2.02 BASE PLASTER MATERIALS

- A Basecoat Plasters, General: ASTM C 28
- B Lime Ready-Mixed Base Plaster: With mill-mixed aggregate.

1. Product: Subject to compliance with requirements, provide eco stucco™ pre-mixed base plaster UNILIME by Mediterranean Colors, LLC.

2.03 ACCESSORIES

- A **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.

2.04 FINISH PLASTER MATERIALS

- A **General: Comply with ASTM C 842 and manufacturer's written instructions for applications.**
- B **Lime Ready-Mixed Finish Plaster: With mill-mixed aggregate.**
 1. Product: Provide eco stucco™ [MURALIME] [TRADILIME] [TRADILIME SF] [MINERA] by Mediterranean Colors, LLC. Mix and apply in accordance with manufacturer's instructions.

2.05 MISCELLANEOUS MATERIALS

- A Primer: Water-Based type PVA
- B Mixing Water: Clean, fresh, potable and free of mineral or organic matter.
- C Penetrating Sealer: [AFM Safecoat® WaterStop]

2.06 INTERIOR FINISH SYSTEM

ENSURE SATISFACTORY PREPARATION OF SUBSTRATES.

GYPSUM DRYWALL: DRYWALL SHALL BE TAPED AND SANDED. PROVIDE A LEVEL THREE (LEVEL 3) SURFACE AND PRIMED WITH A WATER-BASED PRIMER TYPE PVA.

ECO STUCCO™ SYSTEMS CAN BE APPLIED OVER CEMENT BOARD, PAINTED SURFACES, CONCRETE, MASONRY, AND OTHER SUBSTRATES. CONTACT MEDITERRANEAN COLORS FOR SUBSTRATE PREPARATION

1. PRIMER: Water-Base Type PVA
2. [COMBO 90]: Reinforcing Square Corners [Bull Nose]
3. UNILIME: [Floated] [Scratched]
4. [MURALIME]: [Polished] [Satin] [Matte] [Rustic] [Lime Wash]
5. [MINERA]: [Polished] [Satin] [Matte] [Freestyle] [Blocks]
6. [TRADILIME]: [Pitted] [Sand Float] [Rustic] [Blocks]
7. [TRADILIME SF]: [Pitted] [Sand Float] [Rustic] [Blocks]
8. Color: [_____] [As shown on Drawings] [Standard color as selected by Architect] [Custom color as selected by Architect].

APPLY BEES-WAX OVER MURALIME POLISHED OR MINERA POLISHED 8 DAYS FOLLOWING THE APPLICATION AND WHENEVER AN INCREASED SHEEN LEVEL IS DESIRED.

2.07 TOOLS

- A. Trowels, sponge floats (low and medium density), stainless steel trowels, plastic trowels, and lime brushes.

PART 3 EXECUTION

3.01 EXAMINATION

- A Verify the suitability of existing conditions before starting work. Do not begin work of this Section until unsatisfactory conditions have been corrected.
- B Secure grounds, screeds, corner beads, casing beads, plaster stops, and accessories.

3.02 PREPARATION

- A Comply with manufacturer's written instructions for substrate preparation.
- B Remove hardware, electrical switch and outlet plates, lighting fixtures and other items already in place.
 - 1. After completion of work, reinstall items using workers skilled in the trades involved.
- C 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.
- D Clean substrates of substances that could impair bonding including mold, mildew, oil, grease, salts, contamination and dirt using a Tri-Sodium Phosphate or equal paint preparation cleaner. Allow surface to fully dry before plaster application.
- E For older substrates knock down high points with putty knife, scraper, or drywall sanding screen. Clean and fill any mortar joints and depressions with UNILIME, leveling with the substrate. High gloss surface must be sanded and lead paint removed in accordance with OSHA regulations.
- F Substrate: For gypsum board substrates, apply coats of joint compound over joints and fasteners to achieve a minimum of a Level 3 or better. Touch up and sand as needed and apply water-based primer throughout the surface receiving eco stucco™ treatment.
- G Prepare all materials in accordance with manufacturer's recommendations.
- H Provide each square nose corner with COMBO 90. Place the reinforcing bead over the corner and fasten against the substrate tightly applying base plaster UNILIME over the flanges. Let cure for 2 hours.
- I Apply UNILIME (1/8") – Let it dry to touch – Sponge float to achieve a monolithic background – Let cure for 24 hours.
- J Damp the substrate with water and let the moisture leave the surface before applying ANY finish.

3.03 INSTALLATION

A eco stucco™ MURALIME

- a. [Polished: 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 the surface with a stainless steel or a plastic trowel,
 - Let set and polish with trowel at a 5° angle,
 - Apply bee's wax after 8 days.
- b. [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,
- c. [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.

d. [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.

e. [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).

B eco stucco™ MINERA

a. [Polished]

- 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,
- Let set and polish with trowel at a 5° angle,
- Apply bee's wax after 8 days.

b. [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,

c. [Matte]

- 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.

d. [Freestyle]

- Apply one single coat (1/8"),
- Let it dry to touch,
- Sponge float knocking down imperfections,
- Close the surface randomly leaving open areas.

e. [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.

C eco stucco™ TRADILIME

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.

D eco stucco™ TRADILIME SF

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

- A Protect adjacent finished surfaces from potential damage during plaster installation.
- B Remove temporary coverings used to protect adjacent surfaces and reinstall hardware, plates, lighting fixtures and other items previously removed.
- C Clean and repair adjacent surfaces and items soiled or damaged during Work of this Section.
- D Apply penetrating sealer in high-traffic and/or water-exposed areas: AFM Safecoat® WaterStop is a clear, versatile, controlled penetration water repelling sealer which provides an invisible barrier against water and resists oils, grease and similar liquids. www.afmsafecoat.com

3.05 SCHEDULE

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