

SECTION 09220 - EXTERIOR PORTLAND CEMENT PLASTER (Southern Prototype Only)

PART I - GENERAL

1.01 QUALITY ASSURANCE

- A. Comply with ASTM C-926-98a as applicable and "Plaster, Metal Framing System, Lath Manual", latest edition.
- B. Fire-Resistance: Comply with authorities having jurisdiction.
- C. Allowable tolerances: Do not exceed 1/8 inch in 10 ft. for bow, wrap, plumb or level.
- D. Source: Obtain lath and plaster materials from a single manufacturer.
- E. Low suction and other substrates where proper bond is questionable shall be lathed before plastering.
- F. Remove coatings detrimental to stucco i e.; paint, glaze, etc., from masonry substrates or install lath before plastering.

1.02 SUBMITTALS

- A. Provide two 12" x 12" samples of each color and finish to be applied.

1.03 PROJECT CONDITIONS

- A. Protect adjoining work from soiling, spatters, moisture, or other damage.
- B. Protect plaster from freezing and from uneven and excessive evaporation. Provide coverings, moist curing, protection from wind and sunlight or other necessary protection.

PART II - PRODUCTS

2.01 SUPPORT SYSTEMS

- A. Provide metal or wood support systems as required by the architect of record and of sufficient strength to carry all associated loads.
- B. Channels: Cold rolled steel, 16-ga. min. thickness, protected with rust-inhibitive paint or galvanized. Provide galvanized channels for installations in salt air environments.
 - 1. Carrying channels: minimum 1-1/2" deep x 7/16" wide flanges.
 - 2. Furring channels: minimum 3/4" deep x 7/16" wide flanges.
 - 3. Hat Channels: Minimum 26 gage.
- C. Hanging and Tile wire: As required by architect of record to carry all associated loads.
- D. Fasteners: Nails, screws and wire ties as required by architect of record to carry all associated loads.

2.02 LATH

- A. Asphalt Paper-Backed Diamond Mesh Metal Lath (small mesh, approx. 11,000 meshes per sq. yd.), conforming to Federal Spec. UU-B-790a; type 1, grade B, style 2.
Weight: 3.4 lbs. per sq. yd.
Type: Self-furring
- B. Woven Wire Lath: Galvanized steel wire, 18 gage for 1" mesh, 17 gage for 1-1/2" mesh.
- C. Water Proof Paper: U.U.B-790, minimum weight 15 lbs./100 sq. ft.
- D. Fasteners: Nails; galvanized with 7/16" heads minimum, length to penetrate into wood 7/8" minimum.

Screws; galvanized with 7/16" heads minimum, length to penetrate steel framing 1/2" minimum.
- E. Accessories: Provide minimum 26 gage, galvanized metal corner reinforcement, strip lath, casing beads (24 gage min.), prefabricated control joints and drip screeds

2.03 PLASTERING MATERIALS

- A. Portland Cement: ASTM C-150, Type I or II.
- B. Hydrated Lime: ASTM C-206.
- C. Aggregate: For base coats and finish coats, comply with ASTM C-144. Use washed Ottawa silica sand for finish coats.
 - 1. For integrally colored finish coat, aggregate shall be manufactured or natural sand to match the following colors: Field Color; match Benjamin Moore paint color "Bone White".
Accent Color; match Benjamin Moore paint HC-48 "Bradstreet Beige".

2.04 PORTLAND CEMENT PLASTER MIXES

- A. Three coat work over metal lath, provide mechanically mixed proportions according to ASTM C-926 as follows:
 - 1. Scratch Coat: One part Portland cement, 1/4 part hydrated lime, 3 -1/2 parts aggregate (reinforcing fibers not to exceed 3% of Portland cement).
 - 2. Brown Coat: One part Portland cement, 1/4 part hydrated lime, 4-1/2" parts aggregate.
 - 3. Finish Coat: (See article 2.03, C.1. for field and accent colors). Provide one of the following, to match required field and accent colors: (Note: Florida stores to receive E.I.F.S. finish coat).
 - a. Class PB, E.I.F.S. system, 100% acrylic resin based, factory mixed, integrally pigmented, finish coat applied over E.I.F.S. manufacturer's tintable primer. Acceptable manufacturers: Dryvit, Parex, Senergy and Sto.
 - b. Sonneborn, SonoWall™ StuccoTex™ textured acrylic finish coat with factory prepared color.
 - c. One part Portland cement, 1/2 part hydrated lime, 3-4 parts aggregate.

Note: For factory prepared finish coats, add water only, per manufacturers instructions.

2.05 MISCELLANEOUS METALS MATERIALS

- A. Bonding agents: "ACRYL 60" by Standard Drywall Products Co. or equal.
- B. Fiberglass Reinforcement: Alkaline resistant 1/2" long strands.

PART III - EXECUTION

3.01 ACCESSORY APPLICATION

- A. Corner Bead: Apply to all vertical and horizontal exterior corners.
- B. Casing Bead: Install at all locations where stucco terminates against dissimilar materials.
- C. Control Joints: Break base behind joint and back by double studs. Space control joints not exceeding 10 ft. in either direction. Where vertical and horizontal joints intersect, butt horizontal joint to continuous vertical joint. Caulk splices and intersections.
- D. Reinforcing: Apply strips of metal lath over joints between dissimilar plaster bases, at un-lapped interior corners and diagonally around corners of all openings.

3.02 INSTALLATION

- A. Stucco applied to metal lath shall be fully embedded and completely keyed.
- B. Masonry substrates with correct suction shall be dampened prior to plaster application.
 - 1. Apply in two coats, brown coat and finish coat.
 - 2. Apply base coat in two steps using "double-back" method to 1/2" thickness.
- C. Proper concrete substrates shall receive bonding agent prior to plaster application.
 - 1. Apply in two coats, brown coat and finish coat.
- D. Primers: Apply to substrate at E.I.F.S. manufacturers prescribed rates, prior to application of E.I.F.S. finish materials. Tint to match finish color.

3.03 PLASTER THICKNESS & TEXTURE

- A. Scratch Coat: On metal reinforcing 1/2" thick minimum.
- B. Brown Coat: 3/8" thickness.
- C. Finish Coat: Apply 1/8" minimum thickness. Increase thickness as required to achieve required texture and aggregate embedment.
- D. Texture: "Medium sand float" finish to match Walgreens approved sample.
- E. Avoid excessive trowel marks.

3.04 CLEANING AND PROTECTION

- A. Remove plaster from other work not to be plastered. Repair/replace any surface damaged by plastering work.
- B. Plaster must be un-damaged at time of final acceptance by Walgreens.

END OF SECTION

