

Conpro One Coat

Division 9: Finishes

Fiber reinforced, polymer modified, cement based concentrate that combines scratch and brown coat into one coat stucco base and finish.

SECTION 092400 – CEMENT PLASTERING

PART 1 GENERAL

1.1 SUMMARY

Provide labor, materials, equipment and supervision necessary to complete the application of product to the substrate.

1.2 SYSTEM DESCRIPTION

The products shall meet or exceed the following performance requirements:

Base		Portland cement		
Ph	Wet mix	>12		
Water/cement ratio	Wet mix	0.58		
Dry bulk density	ASTM C188	66 pounds per cubic feet		
		7 Days	14 Days	28 Days
Compressive strength - psi	ASTM C109	1600	1900	2250
Tensile strength - psi	ASTM C307	280	350	420

1.3 SUBMITTALS

- A. Manufacturer's current product data bulletin.
- B. The trained applicator shall prepare a test area on the structure as a submittal for approval of proper application, color and texture.
- C. The trained applicator shall submit to the specifier a list of five projects that he has completed within the last five years, exhibiting the applicator's skills. The list shall include project name, location, and description of work and completion date.

1.4 QUALITY ASSURANCE

Products shall be installed by a trained applicator with a minimum of five years' experience and meet the requirements of the specifier.

1.5 DELIVERY, STORAGE & HANDLING

- A. Deliver all products in original labeled, sealed, and undamaged containers.
- B. Store all products in accordance with manufacturer's printed instructions.
- C. Handle products in accordance with manufacturer's printed instructions.

1.6 PROJECT/SITE CONDITIONS

- A. All products shall be applied at substrate and ambient temperatures of 40 degrees F or above.
- B. A minimum temperature of 40 degrees F shall be maintained 24 hours after completion of work.
- C. Protect products from weather and other damage for a period of 24 hours after installation. Do not apply products to frozen surfaces.

1.7 SCHEDULING

The work requires close coordination with related sections and trades.

PART 2 PRODUCTS

2.1 MANUFACTURERS

The following manufacturers are approved for the project.
Conproco

2.2 MATERIALS

- A. Conpro One Coat: Polymer-modified, fiber reinforced, cement based concentrate that combines the scratch and brown coat in one application.
- B. Trim Accessories (if necessary): Expansion joints, corner beads and casing beads shall be rigid PVC exterior grade as manufactured by Plastic Components, Inc., Miami, FL, or 100 percent zinc components as manufactured by Keene Corp., Parkersburg, WV.
- C. Sealant: A one or two part polyurethane sealant as manufactured by _____.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Installation shall be performed strictly in accordance with manufacturer's current product data bulletin.
- B. Examine substrates and conditions under which materials will be installed. Do not proceed with installation until unsatisfactory conditions are corrected.
- C. Coordinate installation with adjacent work to ensure proper sequence of construction. Protect adjacent areas and landscaping from contact due to mixing, handling, and application of materials.

3.2 SURFACE PREPARATION

- A. Prior to application of the products, inspect the substrate for structural cracks or signs of damage. Work shall not proceed until unsatisfactory conditions are corrected.
- B. Repair spalled areas, static cracks or voids with Conpro One Coat or Conpro Set.
- C. Substrate should have an open pored and textured surface (Concrete Surface Profile 3). This is often achieved by grinding or abrasive blast.

- D. Saturate surface with clean water. Substrate should be a Saturated Surface Dry condition when Conpro One Coat is applied.
- E. For Conproco Impact RM (reinforced metal) Wall System:
 - 1. Sheathing must be firmly fastened and comply with all building codes.
 - 2. Place building wrap or air barrier depending on type of substrate.
 - 3. Place trim accessories (expansion joints, corner bead, etc.) as specified:
 - a. Joint and trim accessories shall be mechanically attached to the substrate.
 - b. Attach Stop Bead to top of walls, adjacent to windows and other openings. Set at a distance of 3/8 to 1/2 inches away from the opening to create a space for caulk joint.
 - c. Expansion Joints shall be installed so that no panel is over 144 square feet. The length to width ratio must not exceed 2.5 to 1.
 - d. Install Expansion and Control Joints so that all vertical joints are continuous. At intersections the vertical joint shall be continued.
 - e. At joints in the trim, butt the joints. Do not overlap.
 - f. All accessory butt joints shall be set in a silicone sealant.
 - 4. Install flashing around all window and door openings and wall penetrations according to manufacturer's recommendations.
 - 5. Mechanically fasten self-furring diamond mesh metal lath (complying with ASTM C841 and ASTM C847) within the confines of the panels created by the trim accessories.
 - a. Cut the metal lath to full panel lengths; overlap the flanges of trim accessories.
 - b. Hang the metal lath by installing mechanical fasteners through the lath into the substrate. Use one mechanical fastener per 1 1/3 square feet. Use of 12 inches spacing on each stud for 16 inches o/c framed structures will provide one fastener per 1 1/3 square feet.
 - c. The lengths of metal lath should overlap each other by at least 2 inches.

3.3 APPLICATION

- A. Mechanically mix using a low speed drill (400 to 600 rpm) or mortar mixer.
- B. Pour 10 quarts of potable clean water into a clean mixing vessel and add 110 pounds of plaster sand (30-70 mesh) to each 50 pound bag of Conpro One Coat.
- C. Sand should have a maximum iron content of 0.25 percent and maximum organic content of 0.10 percent.
- D. Mix continuously for 3 minutes to a uniform, lump-free consistency.
- E. Add up to 2 pints of additional water to achieve workability.

- F. Allow to breathe for 1 minute and then remix for 1 minute to improve workability and open time.
- G. Do not retemper or overmix.
- H. If directly applied to concrete and masonry:
 - 1. At time of application, surface should be wet, but hold no standing water (Saturated Surface Dry).
 - 2. Trowel or spray apply material to a uniform minimum thickness of between 3/8 inch and a maximum of 7/8 inch.
 - 3. Apply an additional coat of 1/16 to 1/8 inch to achieve a level plane where desirable.
- I. If applied to Impact RM (reinforced with metal lath) System:
 - 1. Ensure substrate is in a Saturated Surface Dry condition.
 - 2. Trowel or spray apply material to a uniform minimum of 3/16 inch, to completely cover the lath.
 - 3. Apply additional material up to 1 inch thick for added impact resistance.

3.4 CURING

- A. Keep damp with a fine mist of water for 24 hours.
- B. Protect from direct sunlight, wind, rain and frost during the curing period.

3.5 CLEANING

- A. Material left over at the job site by the approved applicator shall be removed.
- B. All adjacent surfaces and materials shall be cleaned.
- C. Any foreign material resulting from the work of the approved applicator shall be removed.

END OF SECTION 092400