

Below Grade Waterproofing

Section 07145 or 07 16 16
Capillary Waterproofing

CONPRO SUPER SEAL

PART I: GENERAL

1.01 DESCRIPTION

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

1.02 QUALITY ASSURANCE

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

1.03 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 and adhesion.
- 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.

1.04 PRODUCT DELIVERY, STORAGE & HANDLING

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

1.05 JOB CONDITIONS

All products shall be applied at substrate and ambient temperatures of 45°F or above. A minimum temperature of 45°F shall be maintained 24 hours after completion of work. Protect products from weather and other damage for a period of 24 hours after installation. Do not apply products to frozen surfaces.

1.06 COORDINATION & SCHEDULING

The work requires close coordination with related sections and trades.

PART II: PRODUCTS

2.01 MANUFACTURERS

The following manufacturers are approved for the project.

Conproco Corporation

2.02 MATERIALS

Super Seal: A two-part, cementitious capillary waterproofing for concrete and masonry walls.

2.03 PERFORMANCE CHARACTERISTICS

General Physical Properties: The products shall meet or exceed the following performance standards:

Physical state and appearance		Fine, gray or white powder and admixture		
Base				
Powder		Portland cement		
Liquid		Milky, viscous liquid		
pH	Wet mix	>12		
Liquid/cement ratio		0.45		
Density	Wet mix	93 lbs./ft. ³		
Density	Hardened	100 lbs./ft. ³		
Pot life		20 – 40 minutes		
Durometer hardness	ASTM D2240	80 – 85		
Water penetration and leakage	ASTM E514	100% reduction in leakage		
Resistance to hydrostatic pressure	CRD-48-73	57 ft. – 2 coats		
Concrete block		103 ft. – 3 coats		
		7 Days	14 Days	28 Days
Compressive strength – psi	ASTM C109	5775	6125	6350
Tensile strength – psi	ASTM C307	230	420	450

PART III: EXECUTION

3.01 GENERAL

- 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.

3.02 SURFACE PREPARATION

- A. Prior to application of the waterproofing membrane remove any dirt, debris, grease, oil or other contaminants on the substrate that will inhibit bond.
- B. Grind or abrasive blast (CSP 3) to achieve an open-pored surface. This is essential to allow the crystalline structure to grow into the cement capillaries. Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).
- C. Stop active leaks with Conpro Plug.
- D. Stop weeping water with Conpro Stop.
- E. Saturate with clean water, (saturated surface dry/SSD). Wall should be wet when Conpro Super Seal is applied.

3.03 MIXING

- A. Shake bottle of the Super Seal Admix until contents are uniformly mixed. Put the Super Seal Admix in a mixing vessel and mix with five quarts of water.
- B. While mixing, slowly add Super Seal bag contents to the water/admix solution. Mix at low speed for three minutes. Scrape sides and add water as needed to achieve a slurry-like consistency.

C. Allow to breathe for 1 minute then remix for an additional minute.

3.04 APPLICATION

- A. Protect all adjacent surfaces. Dampen wall surface with water just prior to applying the Super Seal.
- B. Using a stiff masonry brush (tampico fiber), apply the Super Seal using figure-eight strokes. Apply the coating evenly and fill the voids and pores of the substrate with slurry. Keep brush clean and free from buildup. Add a small amount of water if material begins to become stiff, and remix.
- C. Apply two coats of Super Seal at a rate 150 square feet per 50 lb. bag for first coat; 200 square feet per 50 lb. bag for second coat. Apply a second coat once the first coat is thumb-print hard.

3.05 CURING

- A. Walls:
 - 1. Mist cure 3 – 4 times per day for 3 days or moist cure with wet burlap and polyethylene for 3 days. Alternatively, apply Conpro C309 Cure & Seal.
 - 2. Protect repair from direct sunlight, wind, rain and frost during the curing period.
- B. New concrete slabs:
 - 1. Dampen with a fine mist of water for 24 hours or moist cure with wet burlap and polyethylene. Alternatively, apply Conpro C309 Cure & Seal.
 - 2. Protect repair from direct sunlight, wind, rain and frost during the curing period.

3.06 JOB SITE CLEANUP

- 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. Cured material must be removed mechanically.
- D. Clean tools and equipment with water immediately after use.

*****END OF SECTION*****



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