

Conpro Primer

Division 3: Concrete

A long open time, water based, bonding primer for overlays and repair materials to hardened concrete.

SECTION 030130 – MAINTENANCE OF CAST IN PLACE CONCRETE

PART 1 GENERAL

1.1 SUMMARY

Provide labor, materials, equipment and supervision necessary to complete the application of bonding primer.

1.2 SYSTEM DESCRIPTION

The products shall meet or exceed the following performance requirements:

Base		Water		
Polymer		100 percent Acrylic		
pH		greater than 9.0		
Percent solids by weight		31 percent		
Flash point	ASTM D56	greater than 200 degrees F	Seta cc	
Viscosity	ASTM D562	50 KU – paint paddle		
Volatile organic content – VOC	ASTM D3960	1.0 gram per liter		
Density of liquid coatings	ASTM D1475	8.4 pounds per gallon		
Resistance to chemicals	ASTM C1308	NaOH Solution – Excellent		
Standards for latex bonding primers	ASTM C1059	Type 11 – exterior use		
Mandrel bend	ASTM C522	No cracking over 1 inch material		
Slant shear bond strength	ASTM C882	1850 psi – air cure		
Heat Stability	ASTM C932	Pass 30 days at 140 degrees F		
		3 Days	7 Days	14 Days
Tensile bond strength – psi	ASTM C932			
100 percent cohesive in concrete patch – psi		190		
80 percent cohesive in concrete patch – psi			410	
80 percent cohesive in concrete patch - psi				525

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 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.

1.4 QUALITY ASSURANCE

Products shall be installed by a trained applicator with a minimum of five years’ experience.

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 substrate and ambient temperature of 40 degrees F shall be maintained 8 hours after completion of work.
- C. Do not apply products to frozen surfaces.
- D. Protect adjacent surfaces from pigmentation present in primer.

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

Conpro Primer: A long open time, water based, single component, bonding primer for concrete or repair mortars to hardened concrete.

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. Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper penetration. Do not apply to painted surfaces.
- B. Follow the specific surface preparation instruction for the material to be applied.

- C. When placing fresh concrete expose aggregate of existing substrate a minimum of 1/8 inch (Concrete Surface Profile 6). Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile.
- D. Protect adjacent areas from overspray. Do not spray in windy conditions.

3.3 APPLICATION

A. Mixing

1. No additives of any kind shall be added.
2. Stir or shake container.

B. Application

1. Spray, roll, or brush in a thin, uniform application.
2. Do not allow material to form a surface film. It is critical to avoid excessive thickness, as this will result in a cohesive adhesion failure and delamination.
3. On scarified horizontal applications, broom Conpro Primer immediately after spraying to avoid ponding.
4. For roller applications use a 3/8 to 1/2 inch synthetic nap roller depending on texture of substrate.
5. For spray applications use a low pressure or airless sprayer.
6. Apply to all surfaces to receive covering material including the edges perpendicular to the repair zone.
7. The material is pink when applied.
8. The material will turn orange when dry – approximately 30 minutes at 70 degrees F and 50 degrees RH.
9. Apply covering material when Conpro Primer is orange.
10. Install covering material within 72 hours.
11. Re-apply Conpro Primer if more than 72 hours passes without placing covering material.

C. Curing

1. No curing is required.

3.4 CLEANING

- A. All materials left over at the job site by the approved applicator shall be removed.
- B. All adjacent surfaces and equipment shall be cleaned with water immediately after use.

END OF SECTION 030130