

Conpro Lastic

Division 9: Finishes

A waterproof elastomeric crack bridging, anti-carbonation membrane for vertical exterior surfaces.

SECTION 099653 – ELASTOMERIC COATINGS

PART 1 GENERAL

1.1 SUMMARY

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

1.2 SYSTEM DESCRIPTION

The products shall meet or exceed the following performance requirements:

| Grade | | Smooth | Sanded |
|--|---------------------|--|---------------------------|
| Physical State and Appearance | | Liquid-tinted-thick paint | Liquid-tinted-thick paint |
| Base | | Aqueous | Aqueous |
| Polymer | | 100 percent acrylic | 100 percent acrylic |
| pH | | 9.5-10.5 | 9.5-10.5 |
| Percent solids by weight | | 54 percent | 62 percent |
| Percent solids by volume | ASTM D2697 | 46 percent | - |
| Viscosity | ASTM D562 | Less than 142 KU | Less than 142 KU |
| Flame spread | ASTM E84 | Zero | Zero |
| Density of liquid coatings | ASTM D1475 | 10.6 pounds per gallon | 11.2 pounds per gallon |
| Tear Resistance | ASTM D6083 | 80 pounds per inch | 28 pounds per inch |
| Moisture vapor transmission | ASTM D1653 | 16.2 perms at 15 mils DFT | 39 perms at 15 mils DFT |
| Method B wet cup | | | |
| Accelerated weathering-QUV | ASTM G154 | 2000 hours-UV-B cycled with condensation-no effect | Same data as for smooth |
| Resistance to chemicals | ASTM D1308 | Excellent | Excellent |
| Water penetration and leakage | ASTM E514 | 100 percent reduction | 100 percent reduction |
| Wind driven rain | Fed. Spec TT-C-555B | Pass | Pass |
| Wind driven rain | ASTM D6904 | Pass | - |
| Dirt pick-up | ASTM D3719 | Excellent | Excellent |
| Low temperature flexibility | ASTM D522 | Pass | Pass |
| Low temperature flexibility after 1000 hours | ASTM D522 | Pass | Pass |
| Tensile | ASTM D412 | 270 psi | - |
| Elongation | ASTM D412 | 485 percent | - |
| Crack Bridging | ASTM C1305 | No Cracking | - |

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 and meet the requirements of the specifier.

1.5 DELIVERY, STORAGE & HANDLING

- A. Deliver all products in original labeled, sealed, and undamaged container.
- 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 45 degrees F or above. A minimum temperature of 45 degrees F shall be maintained 24 hours after completion of work.
- B. Protect products from moisture for a period of 24 hours after application.
- C. Protect products from wind driven rain for 72 hours after application.
- D. 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 Lastic: A waterproof elastomeric crack bridging, anti-carbonation membrane for vertical exterior surfaces.
- B. Color: _____
- C. Texture: _____

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 product, inspect the substrate for proper cleaning and treatment of structural cracks, texture differences, damage, etc. Work shall not proceed until unsatisfactory conditions are corrected.
- B. Surfaces must be clean, sound, and free from any loose paint, chalk, rust, grease, dirt, laitance, efflorescence, mortar droppings, mold, mildew or other such foreign materials that may inhibit adhesion. Surface may be cleaned by mechanical or chemical methods that will not inhibit bond of coatings and sealants to substrate. Allow substrate to dry completely before proceeding.
- C. Small voids, air pockets and static cracks up to 1/16 inch should be filled with Conproco Plastermix.
- D. For cracks greater than 1/16 inch, rout and caulk with a urethane sealant approved by the specifier.
- E. Remove and replace all defective or existing sealants and control joints. Sealant shall be approved by the specifier. Work shall not proceed until inspected.

3.3 APPLICATION

A. Mixing

1. Mix with low-speed (400-600 rpm) mixer until homogeneous. Do not use high-speed mixer or over mix.
2. Mix pails from different batches when an entire surface is visible.

B. Application

1. If rolling, apply with a heavy nap roller (1 1/4 inch synthetic nap roller). Use a roller screen to provide an even amount of Lastic on the roller.
2. If spraying smooth textured Conpro Lastic, use a commercial airless paint sprayer (Graco 3500, President or Bulldog with a 0.041 to 0.047 tip). Back roll for a pinhole free texture.
3. If spraying sanded textured Conpro Lastic, use a spray gun designed for heavy bodied fluids, such as a Binks model 7E2 (with a fluid inlet of 3/4 inch NPS (m), or a Binks model 7D (with a fluid inlet of 1/2 inch NPS (m). Back roll for a pinhole free texture.

4. Apply to a minimum of 15 mils. wet film thickness per coat to achieve a continuous pinhole free membrane. Back roll material to eliminate pinholes, if necessary.
5. The Conpro Lastic shall be applied in one continuous operation, maintaining a wet edge. Terminate coats at a natural break such as an outside or inside corner if one continuous coat is not possible.
6. Sufficient manpower, scaffolding and equipment shall be provided to ensure a continuous and uniform application.
7. Test the mockup to determine coverage rate and adhesion at 3 locations. Test adhesion using ASTM D3359 procedure after the coating has cured for at least 7 days by using a knife to cut full depth a crosshatch pattern (#) of 8 by 8 squares of 0.25 inches by 0.25 inches. Firmly adhere industry standard duct tape over the entire crosshatched mockup and let tape adhere to coating for at least 10 minutes. Pull duct tape off mockup in uniform motion over 1 to 2 seconds. If the coating comes off over 25 percent of the squares on 1 or more mockups, the adhesion is not adequate. If the adhesion is not adequate, modify coverage rates and preparations to pass adhesion test. If the adhesion is still not adequate apply Conpro Point 5 bonding primer to a new area and then reapply the coating and retest.

C. Curing

Protect from moisture for 24 hours and wind driven rain for 72 hours.

3.4 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 with water before material dries.
- C. Cured material must be removed mechanically.

END OF SECTION 099653