

## ARTICLE XV – COATING

### 15.1 GENERAL

- A. Work under this Article includes furnishing all labor, materials and equipment necessary to coat light poles and the new concrete repairs as indicated on the drawings.
- B. In general, the work includes, but is not necessarily limited to, the following:
  - 1. Cleaning, preparing and coating all light pole surfaces.
  - 2. Cleaning, preparing and coating all light pole pedestals.

### 15.2 MATERIAL

- A. Coating - All coatings shall be delivered to the site in the manufacturer's sealed containers. Each container shall be labeled by the manufacturer with the label showing the name, brand, type of coating, color of coating, and the manufacturer's instructions for reducing consistency. The coating materials shall be the following or approved equal.
  - 1. Water Based Cleaner – Water based cleaner shall be Prep 88 manufactured by PPG Protective and Marine Coatings or approved equal.
  - 2. High Solids Epoxy Coating – High Solids Epoxy Coating shall be Amerlock 400 manufactured by PPG Protective and Marine Coatings or approved equal.
  - 3. Engineered Siloxane Coating – Engineered Siloxane Coating shall be PSX 700 manufactured by PPG Protective and Marine Coatings or approved equal.

### 15.3 CONSTRUCTION METHODS

- A. All surfaces to be coated shall be as follows.
  - 1. Coating manufacturer's recommendations shall be followed for cleaning, surface preparation, and coating of all light pole and pedestal surfaces. Light poles shall be shop coated.
  - 2. All surfaces to be coated shall be properly prepared prior to coating and shall be inspected for approval by the Harbors Division Construction Engineer before coating will be allowed. In addition, the first light pole and pedestal to be painted shall be inspected by a technical representative of the coating manufacturer. The technical representative shall test for

acceptable chloride levels on the surfaces to be coated, and verification of the surface preparation and dry film thickness of the coatings.

3. Surfaces to be coated must be dry, clean, free of oil, grease, dust, wax, soaps, powdery residue, form release agents, curing compounds, laitance, and other foreign matter and be structurally sound. Remove mortar splatter, mill scale and rust.
  4. Surfaces to be coated are shown on the drawings and include the new light poles, concrete pedestals and miscellaneous pole mounted items.
  5. Light poles and concrete pedestals shall be coated OSHA yellow.
  6. All coatings shall be applied by roller and/or brush applications. No spraying will be allowed.
  7. The prime coat shall be applied on the same day that the surface is prepared. It may take more than a single application to obtain the required thickness. If a coat requires more than a single application, it shall be done no later than the following day.
  8. The time interval between each coat shall be no more than 24 hours or as recommended by the manufacturer. For intervals exceeding 24 hours, all surfaces shall be rinsed with fresh water or tested for acceptable chloride levels by the technical representative of the product manufacturer. Each coat shall be of a lighter color than the later coat to be coated upon it.
  9. Finish work shall be uniform and of approved color. The finish shall completely cover, be smooth and be free from runs, sags, drips, waves, laps or brush marks. Edges of coating adjoining other surfaces of materials shall be sharp and clean without overlapping.
  10. Coating shall be allowed to cure completely. Any marred surfaces or damages to the coating finish shall be corrected by proper preparation and recoating.
  11. All methods and procedures shall comply with OSHA and HIOSH requirements and be approved by the Construction Engineer.
- B. Light poles shall be cleaned, prepared and coated as follows.
1. Surfaces to be coated shall be cleaned with Prep 88 water based cleaner.
  2. Apply two (2) coats of Amerlock 400 at a dry film thickness of 4-6 mils per coat.
  3. Apply one (1) coat of PSX 700 at a dry film thickness of 5-7 mils.

- C. Non-shrink grout and concrete pedestal surfaces shall be cleaned, prepared and coated as follows.
1. Allow new concrete to cure a minimum of 14 days or per manufacturer's recommendation.
  2. Clean concrete surfaces similar to SSPC-SP-2 or SSPC-SP-3.
  3. Apply one (1) coat of Amerlock 400 at a dry film thickness of 4-6 mils per coat.
  4. One (2) coats of PSX 700 at a dry film thickness of 5-7 mils.
- D. Clean-up of coatings shall be as follows.
1. All coating, oil, etc. shall be cleaned off the pavement, concrete, vehicle bollards, electrical panels or any portion of the light pole and surrounding items where coating has splashed or been spilled. The Contractor shall take precautions to prevent coating from being splashed on equipment, vehicles, or cargo in the project area.
  2. All unused rags, waste and empty containers shall be removed from the work area at the end of each work day and precautions shall be taken to avoid the danger of fire.
  3. The Contractor shall maintain the job site in a neat and orderly condition during the progress of the work. Upon completion, the Contractor shall remove all surplus material, debris, equipment, tools, etc. belonging to it and leave the premises in a neat and orderly condition.

15.4 PAYMENT - Payment for Coating will not be measured and paid for separately but shall be considered incidental to the applicable items in Article X of these Specifications.