

SECTION 07100 – WATERPROOFING

PART 1 - GENERAL

1.1 WORK OF THIS SECTION

- A. Furnishing of all labor, materials, services, and equipment necessary for the supply and installation of cementitious crystalline waterproofing to all exterior concrete substrates, below-grade, as indicated on drawings, or as specified herein.

1.2 RELATED SECTIONS:

- . The work of the following Sections applies to the Work of this Section. Other Sections, not referenced below, shall also apply to the extent required for proper performance of this Work:
 - 1. Section 01300 Record Drawings and Submittals
 - 2. Section 03300 Cast In Place Concrete
 - 3. Section 03420 Precast Reinforced Concrete Vault
 - 4. Section 03460 Precast Concrete Manholes
 - 5. Section 03740 Concrete Rehabilitation
 - 6. Section 03760 Manhole Rehabilitation

1.2 PROTECTION OF MATERIALS

- A. All materials shall be delivered to the jobsite in its original unopened containers bearing the manufacturer's name, brand and batch number. All coatings shall be stored in enclosed structures to protect them from weather and excessive heat and cold. Flammable coatings must be stored to conform to city, county and state safety codes for flammable coating or paint materials.

1.3 SUBMITTALS

- A. Submit manufacturer's data sheets showing the following information is in accordance with these Specifications:
 - 1. Product data
 - 2. Manufacturer's specifications
 - 3. Installation instructions
 - 4. General recommendations for waterproofing
 - 5. Manufacturer's certification that products comply with the requirements of the Contract Documents.
 - 6. Minimum recommended dry-film thickness per coat.
 - 7. Recommended surface preparation.
 - 8. Physical properties.
 - 9. Moisture vapor transmission.
 - 10. Application instructions including recommended equipment and temperature limitations.
- B. Submit manufacturer's application recommendations and Safety Data Sheets for the product.

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PART 2 - PRODUCTS

2.1 EXTERIOR WALLS OF MANHOLES, VAULTS AND CONCRETE STRUCTURES

- A Exterior walls of manholes, vaults, and concrete structures shall be coated with Xypex Crystalline Waterproofing manufactured by Xypex Chemical Corporation (800-961-4477), Thoroseal Waterproof Cement-Based Coating manufactured by BASF Construction Chemicals (866-518-7171), or approved equal.
- B The material shall be an approved waterproofing composition for use on exterior concrete and shotcrete surfaces.

PART 3 - EXECUTION

3.1 GENERAL

- A. The site visits, verification of substrates, and examination for defects shall be performed by the manufacturer's representative.

3.2 SURFACE PREPARATION

- A All concrete surfaces shall be prepared in accordance with the recommendations of the coating manufacturer.
- B All defects shall be repaired per the manufacturer's recommendation prior to applying the waterproof coating.

3.3 APPLICATION

- A Two coats of waterproofing material shall be applied by brush, spray, or roller to completely cover the buried concrete surface at a maximum coverage of 80 square feet per gallon per coat, or at the manufacturers recommended usage rate, whichever is less.
- B Each coat shall be free of runs, skips, or holidays.
- C All work for the exterior waterproofing of concrete structures shall be done in accordance with the manufacturer's recommendations.

3.4 CURING

- A. After the application of the waterproof coating, the coating shall be cured per the manufacturer's recommendations.

****END OF SECTION****