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SECTION 07 16 00

CEMENTITIOUS AND REACTIVE WATERPROOFING

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**PART 1 - GENERAL**

1.1 SUMMARY

- A. Section Includes: Provide crystalline type reactive waterproofing system applied to interior (negative) side of concrete surfaces.
  - 1. Locations: Apply at elevator pits.
- B. Related Sections:
  - 1. Section 07 13 00: Sheet waterproofing at below grade foundations.
  - 2. Section 07 14 00: Hot fluid applied waterproofing at decks.
  - 3. Section 09 30 00: Waterproofing integral with tile installations.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's literature.
- B. Certificates: Submit manufacturer's representative's certification work has been installed in accordance with manufacturer's recommendations.

1.3 QUALITY ASSURANCE

- A. Qualification of Installers: Minimum five years successful experience in projects of similar scope.

1.4 SITE CONDITIONS

- A. Do not apply waterproofing during inclement weather or when air temperature is below 40 degrees F.
- B. Do not apply waterproofing to dirty, dusty, or otherwise unsuitable surfaces.

1.5 WARRANTY

- A. Extended Correction Period: Provide for correcting failure of system to resist water penetration except where failure is result of structural failure of building. Repair system and pay for or replace damaged materials and surfaces.
  - 1. Hairline cracking due to temperature or shrinkage is not considered structural failure.
  - 2. Period: Two years.

- B. Manufacturer's Warranty: Submit manufacturer's warranty including special manufacturer services as required for manufacturer's warranty.
  - 1. Period: 10 years.
  - 2. Manufacturer's warranty shall not detract from requirements of extended correction period nor from Owner's rights under implied and expressed warranties regardless of wording of manufacturer's warranty.

## **PART 2 - PRODUCTS**

### **2.1 SYSTEMS MANUFACTURERS**

- A. Xypex/Concentrate, with the "Architectural Finish".
- B. Vandex, Inc./Super.
- C. Kryton Group of Companies/Krystol T1 and T2.
- D. Substitutions: Refer to Section 01 25 00.

### **2.2 MATERIALS**

- A. System Description: Provide crystalline type reactive waterproofing system applied to interior (negative) side of concrete surfaces.
- B. Waterproofing: Crystalline type waterproofing designed to resist water penetration when applied to wall or floor negative side (side away from water pressure).
  - 1. Provide system with integral finish or capable of being painted.
  - 2. Floor applications shall be designed for pedestrian traffic.
  - 3. Finish: Manufacturer's standard, white where available.
- C. Accessory Materials: Provide accessory materials as required and recommended by waterproofing manufacturer to assure complete, watertight installation.

## **PART 3 - EXECUTION**

### **3.1 PREPARATION**

- A. Ensure sleeves, curbs, and projections that pass through waterproofing are properly and rigidly installed.
- B. Ensure surfaces are free of cracks, depressions, waves or projections which may be detrimental to proper installation of waterproofing.
  - 1. Repair surfaces as required by manufacturer's representative.

- C. Seal cracks and expansion joints as recommended.
- D. Clean surfaces of dust, dirt and foreign matter detrimental to proper installation of waterproofing.

### **3.2 INSTALLATION**

- A. Apply waterproofing in accordance with manufacturer's recommendations and installation instructions for watertight installation.
- B. Seal items projecting through waterproofing.

### **3.3 SITE QUALITY CONTROL**

- A. Manufacturer's Field Services: Manufacturer's representative to inspect work of Project and provide certification waterproofing has been installed in accordance with manufacturer's recommendations.
  - 1. Provide unobstructed access to waterproofing work for inspection.
  - 2. Correct defects and irregularities as advised by manufacturer's representative.

**END OF SECTION**