

**SECTION 07 19 00**

**WATER REPELLENTS**

**PART 1 - GENERAL**

**1.1 SUMMARY**

A. Related Sections:

1. Section 04 72 20 - CAST STONE.
2. Section 04 20 00 - UNIT MASONRY.

**1.2 SUBMITTALS**

- A. Product Data: Submit for water repellent, include chemical properties and percentage of solids.
1. Include sample of warranty customized for this project.
- B. Samples: Submit 12 by 24 inch samples on each type of substrate indicated to receive repellent treatment with specified coating applied at required rate to half of each sample.
- C. Informational Submittals: Submit following packaged separately from other submittals:
1. Certifications specified in Quality Assurance article.
  2. Qualification Data: Applicator's qualification data.
  3. Manufacturer's instructions.
- D. Closeout Submittals: Submit specified warranty.

**1.3 QUALITY ASSURANCE**

- A. Applicator Qualifications: Acceptable to manufacturer with documented experience on at least five projects of similar nature in past five years.
- B. Informational Submittals: Submit following packaged separately from other submittals:
1. Test Reports: Submit written results of testing specified as part of Field Quality Control articles.
- C. Certifications: Manufacturer's Certification on manufacturer's letterhead:
1. Submit manufacturer's approval of installer.
  2. Certify materials ordered and supplied meet membrane manufacturer's published performance standards and requirements of this Specification.

3. Certify materials ordered and supplied are compatible with each other, suited for locale and purpose intended.
4. Certify water repellent materials have express warranty of fitness for particular purposes of this Project.
5. Certify submittal details meet manufacturer's warranty requirements for this specific Project.
6. Certify manufacturer has reviewed Drawings, Specifications, submittals, and project conditions and will issue warranty upon successful completion of installation.

#### **1.4 FIELD SAMPLES**

A. General:

1. Provide sample of coating on cast stone and masonry item of Architect's choice, for review and approval.
2. Verify that substrate has received sufficient amount of coating to perform as intended and that application has not stained or discolored surface.
3. Accepted Field Sample: May remain part of completed Work.

#### **1.5 DELIVERY, STORAGE AND HANDLING**

- A. Store products above 50 F, but no greater than 85 F unless otherwise recommended by manufacturer.

#### **1.6 ENVIRONMENTAL REQUIREMENTS**

- A. Do not apply coating when ambient or substrate surface temperatures are below 40 F or higher than 100 F.
1. Do not apply during inclement weather or when forecasted conditions will not permit work in accordance with manufacturer's printed instructions.
  2. Provide mechanical ventilation during and after application to dissipate fumes if natural ventilation is insufficient.

#### **1.7 WARRANTY**

A. Special Warranty:

1. Warranty for completed installation signed by manufacturer, applicator and Contractor warranting against water infiltration and chloride ion penetration into concrete including defects of materials and workmanship for period of five years.
  - a. Warranty: Include labor for reapplication of material.

## **PART 2 - PRODUCTS**

## **2.1 WATER REPELLENT SEALER MATERIALS**

- A. Concrete Masonry Unit Sealer: Water-based penetrating water repellent sealer for concrete masonry units, 100 percent water dispersible silane composition; non-staining, breathable solution; chemically modified to bond to concrete masonry substrate; VOC compliant.
  - 1. Water Penetration: ASTM E514. Prevents 100 percent of water penetration.
  - 2. Penetrating non-film forming type sealer which does not alter natural surface appearance.
  - 3. Location: CMU and cast stone.
  - 4. Acceptable Products and Manufacturers:
    - a. Chem-Trete PB-VOC, Huls America, Piscataway, NJ.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Examine conditions and proceed with work.
  - 1. Verify that surfaces are clean, dry, dust free, and free of efflorescence, oil or other matter detrimental to coating application.
  - 2. Verify that joint sealant work in adjoining surfaces is complete. Delay application until sealants have cured.

### **3.2 PREPARATION**

- A. Remove loose particles, foreign matter, and oil by method which will not affect coating application.
  - 1. Allow surfaces to dry sufficiently after washing in accordance with manufacturer's directions.
  - 2. Protect adjacent surfaces from overspray or drift.

### **3.3 APPLICATION**

- A. Water Repellent Sealer: Apply in accordance with manufacturer's instructions.
  - 1. Application by approved applicator when required by product manufacturer.
  - 2. Apply sealer using low pressure airless sprayer in number of coats and at rate indicated by manufacturer to obtain penetration and full coverage.
  - 3. Do not dilute or alter material as packaged.

### **3.4 FIELD QUALITY CONTROL**

- A. After water repellents have dried, spray surfaces with clear water to reveal areas that have not received application. Allow surfaces to dry before applying water repellent materials in areas exhibiting moisture absorption.
- B. Manufacturer's Field Services:
  - 1. Notify manufacturer in timely manner to arrange for manufacturer's technical representative's site visits to ensure proper installation, verify work is in accordance with manufacturer's requirements, and warranty requirements have been met.
  - 2. Manufacturer's Qualified Technical Representative: Monitor activities and advise applicator of proper installation procedures and precautions.
  - 3. Submit reports; include site observations, instructions, and monitoring activities.

### **3.5 PROTECTION AND CLEANING**

- A. Protect adjacent surfaces, landscaping and property from spillage, overspray, or drift.
- B. Clean spillage, overspray, or drift from adjacent surfaces; remove immediately in accordance with manufacturer's instructions.

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