

**SECTION 07 19 00  
W A T E R R E P E L L E N T**

**PART 1 - GENERAL**

**1.1 SCOPE:**

- A. Provide all of the labor, materials, equipment, and services required to furnish and install the water repellent treatment.

**1.2 QUALITY ASSURANCE:**

- A. Application of materials shall only be by an authorized applicator so designated and approved by the manufacturer.
- B. Application shall be made in the presence of an authorized representative of the manufacturer. The representative shall:
  - 1. Assure that the application and materials used are correct and will not violate the warranty.
  - 2. Ascertain that mil thickness of material(s) is in accordance with manufacturer's recommendations for this Project's specific conditions and that the warranty will not be violated.
  - 3. Submit a certified test report that the materials and thickness applied are correct to achieve water repellency and that a warranty can be issued.
- C. Warranty: Submit a written warranty, executed by the applicator and the manufacturer covering materials and labor, agreeing to repair or replace materials that fail to provide water repellency within the warranty period. This warranty shall be in addition to, and not a limitation of, other rights the Owner may have against the Contractor under the Contract Documents.
  - 1. Warranty period: 10 years from Date of Substantial Completion.

**1.3 SUBMITTALS:**

- A. Prior to application of materials, submit to the Architect for review the following:
  - 1. Manufacturer's literature fully describing the product and the method of application for this project. The method and rate of application shall be completely outlined in order that the Architect will be fully aware of the procedure.
  - 2. Physical sample: Full range of all shades and colors for the Architect's selection.

**1.4 PROJECT CONDITIONS:**

- A. Do not proceed with application of materials, when ambient temperature is less than 50 deg. F. or when substrate surfaces have cured for less than a period of 2 months; when rain or temperatures below 40 deg. F. are predicted for a period of 24 hours, or earlier than 3 days after surfaces became wet; when substrate is frozen; at surface temperature of less than 40 deg. F.

**PART 2 - PRODUCTS**

**2.1 WATER REPELLENT FOR BRICK:**

- A. Product/manufacturer:
  - 1. Protectosil Chem-Trete 40 VOC as manufactured by Evonik Industries.
  - 2. Prosoco Custom Masonry Sealer.
  - 3. Or an approved equal.
- B. Description:
  - 1. Clear, penetrating, breathable water repellent.
  - 2. Material: Isobutyl trialkoxysilane in an alcohol carrier.

### **PART 3 - EXECUTION**

#### **3.1 PREPARATORY WORK:**

- A. Complete all caulking, pointing and repair work before commencing application. If the application must precede such work, care shall be taken to avoid application of water repellent coating to joint faces (such contamination may cause sealant adhesion problems).
- B. All surfaces shall be structurally sound, clean and free of all dust, dirt, paint, bitumens, efflorescence, oil, pollution, deposits, curing, forming, and parting compounds. New masonry construction shall be fully cured and dry.
- C. Surface shall be dry and free of frost. After rainfall, allow surface to dry at least 2 to 3 days to avoid developing hazing effect.

#### **3.2 APPLICATION:**

- A. Stir container just before using to assure the mixture of hydrophobic filler.
- B. Apply at any time when temperatures are above 40°F. Apply directly from the container using a good quality low pressure sprayer (15 - 25 psi). All tools and equipment shall be clean prior to and during application to prevent possible staining or discoloring.
- C. Apply in a flooding application from the bottom up so the material runs down 6-8" below the spray pattern.
- D. When spray applying, spray a uniform horizontal stroke followed by a uniform overlapping vertical stroke.
- E. Coverage rate: As recommended by the manufacturer.

#### **3.3 CLEAN UP:**

- A. If applied to glass or anodized aluminum, remove immediately.

**- END OF SECTION -**