**SECTION 07 19 00**

**WATER REPELLENT PENETRANT**

**PART 1 GENERAL**

1. RELATED DOCUMENTS
   1. The provisions of the general Conditions, Supplementary Conditions, and the Sections included under Division 1, General Requirements, are included as a part of this Section.
2. SECTION INCLUDES
   1. Water-repellent coating applied to exterior masonry and concrete surfaces not scheduled for painting.
3. REFERENCES
   1. F S SS-W-110 C – Federal Specification for Water Repellent, Colorless Silicone Water Base
   2. ASTM E514/E514M – Standard Test Method for Water Penetration and Leakage through Masonry
4. SUBMITTALS FOR REVIEW
   1. Section 01 33 00 - Submittals Procedures
   2. Product Data: Provide details of product description, tests performed, limitations to coating, and chemical properties including percentage of solids.
   3. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention; cautionary procedures required during application.
   4. Manufacturer's Certificate: Certify that Products meet or exceed specified requirements.
5. QUALITY ASSURANCE
   1. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum 5-year documented experience.
   2. Applicator: Company specializing in performing the work of this section with minimum 5-years documented experience.
6. DELIVERY, STORAGE, AND PROTECTION
   1. Section 01 60 00 - Material Equipment and approved equals
7. ENVIRONMENTAL REQUIREMENTS
   1. Section 01 60 00 - Material Equipment and approved equals
   2. Do not apply coating when ambient temperature is lower than 50°F or higher than 100°F.
   3. Do not apply coating when wind velocity is above 20 mph.
8. WARRANTY
   1. Section 01 77 00 - Contract Closeout
   2. Correct defective work within a five-year period after Date of Substantial Completion.

**PART 2 PRODUCTS**

1. MATERIALS
   1. Water based, colorless, oligomeric siloxane/silane, deep penetrating water repellent.
   2. VOC requirements: With less than 3.3 lb/gal (400g/L) VOC’s
   3. Approved Manufacturer’s shall be as follows:
      1. Euclid Chemical Company; CHEMSTOP WB Heavy Duty
      2. Cadeco Sonneborn; White Roc 10 VOC
      3. PROSOCO, Inc.; Siloxane PD

**PART 3 EXECUTION**

1. EXAMINATION
   1. Section 01 31 00 – Project Management and Coordination
   2. Verify joint sealants are properly installed and cured.
   3. Verify surfaces receiving a coating are dry, clean, and free of efflorescence, oil, or other matter detrimental to application of coating.
2. PREPARATION
   1. Delay work until masonry mortar and concrete substrate is cured in accordance with the manufacturer’s instructions.
   2. Remove loose particles and foreign matter.
   3. Remove oil or foreign substance with a chemical solvent that will not affect coating.
   4. Scrub and rinse surfaces with water and let dry.
3. APPLICATION
   1. Apply coating in accordance with manufacturer's instructions.
   2. Apply airless spray.
   3. Do not apply to surfacing receiving paint, unless instructed to by the Architect.
4. PROTECTION TO FINISHED AND ADJACENT WORK
   1. Section 01 77 00 - Contract Closeout
   2. Protect adjacent surfaces not scheduled to receive coating.
   3. Protect landscaping, property, vehicles.
   4. If applied to unscheduled surfaces, remove immediately by a method instructed by coating manufacturer.

END OF SECTION