

SECTION 07181
WATER REPELLENT PENETRANT

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. 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.

1.2 SECTION INCLUDES:

- A. Water-repellent coating applied to exterior masonry and concrete surfaces not scheduled for painting.

1.3 REFERENCES

- A. FS SS-W-110 C - Water Repellent, Colorless Silicone, Water Base
- B. ASTM E514 – Water Penetration and Leakage through Masonry

1.4 SUBMITTALS FOR REVIEW

- A. Section 01300 - Submittals: Procedures for submittals
- B. Product Data: Provide details of product description, tests performed, limitations to coating, and chemical properties including percentage of solids.
- C. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention; cautionary procedures required during application.
- D. Manufacturer's Certificate: Certify that Products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum five-years documented experience.
- B. Applicator: Company specializing in performing the work of this section with minimum five-years documented experience.

1.6 DELIVERY, STORAGE, AND PROTECTION

- A. Section 01600 - Material and Equipment: Transport, handle, store, and protect products
- B. Protect coating liquid from freezing.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Section 01600 - Material and Equipment: Environmental conditions affecting products on site
- B. Do not apply coating when ambient temperature is lower than 50°F or higher than 100°F.
- C. Do not apply coating when wind velocity is higher than 10 mph.

1.8 WARRANTY

The School District of Palm Beach County

Project Name

SDPBC Project No.

- A. Section 01700 - Contract Closeout
- B. Correct defective work within a five-year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Water based, colorless, oligomeric siloxane/silane, deep penetrating water repellent.
- B. VOC requirements: With less than 3.3 lb./gal. (400g/L.) VOC's.
- C. Approved Manufacturer's shall be as follows:
 - 1. Tamms Industries; CHEMSTOP WB Heavy Duty.
 - 2. Sonneborn Building Products; White Roc 10 VOC.
 - 3. ProSoCo, Inc.; Siloxane PD.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01039 - Coordination and Meetings: Verify existing conditions before starting work.
- B. Verify joint sealants are correctly installed and cured.
- C. Verify surfaces receiving a coating are dry, clean, and free of efflorescence, oil, or other matter detrimental to application of coating.

3.2 PREPARATION

- A. Delay work until masonry mortar and concrete substrate is cured a minimum of 60 days.
- B. Remove loose particles and foreign matter.
- C. Remove oil or foreign substance with a chemical solvent that will not affect coating.
- D. Scrub and rinse surfaces with water and let dry.

3.3 APPLICATION

- A. Apply coating in accordance with manufacturer's instructions.
- B. Apply airless spray.
- C. Apply in two continuous, uniform coats.
- D. Do not apply to surfacing receiving paint, unless instructed to by the Architect.

3.4 PROTECTION TO FINISHED AND ADJACENT WORK

- A. Section 01700 - Contract Closeout: Protecting installed work.
- B. Protect adjacent surfaces not scheduled to receive coating.
- C. Protect landscaping, property, vehicles.
- D. If applied to unscheduled surfaces, remove immediately by a method instructed by coating manufacturer.

END OF SECTION