

SECTION 07 19 00 - WATER REPELLENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes penetrating water-repellent coatings for the following vertical and horizontal surfaces:
 - 1. Concrete (unpainted).
 - 2. Cast stone.
 - 3. Brick masonry.
 - 4. Concrete unit masonry (unpainted and unglazed).
 - 5. Stonework.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Product test reports.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by manufacturer.

1.4 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer and Applicator agree(s) to repair or replace materials that fail to maintain water repellency specified in Part 1 "Performance Requirements" Article within five (5) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide one of the products listed in other Part 2 articles.

2.2 PENETRATING WATER REPELLENTS

- A. Siloxane, Penetrating Water Repellent: Clear, oligomeric alkylalkoxysiloxanes containing 10 percent or more solids; with alcohol, ethanol, mineral spirits, water, or other proprietary solvent carrier; and with 3.3 lb/gal. or less of VOCs.

1. Products:

- a. Chemical Products Industries, Inc.; CP-500W.
- b. ChemMasters; Spall Guard WB 10%.
- c. Chemprobe Coating Systems, L. P.; Prime A Pell H₂O.
- d. Diedrich Technologies, Inc.; 303-S.
- e. Euclid Chemical Company (The); Weatherguard.
- f. Hydrozo, a division of ChemRex; Enviroseal 40.
- g. ProSoCo, Inc.; Natural Stone Treatment.
- h. SaverSystems, Div. of Meredith, Inc.; Masonry Saver WB.

- B. Silane/Siloxane-Blend, Penetrating Water Repellent: Clear, silane and siloxane blends with 3.3 lb/gal. or less of VOCs.

1. Products:

- a. Anti-Hydro International, Inc.; Aridsil VOC.
- b. Chemprobe Coating Systems, L. P.; Deck A Pell 15%.
- c. Gemite Products, Inc.; Gem Guard SX.
- d. Hydrozo, a division of ChemRex; Enviroseal 7.
- e. L&M Construction Chemicals, Inc.; Aquapel.
- f. Pecora Corporation; 910W.
- g. ProSoCo, Inc.; SL 100 Water Repeller.
- h. Seal-Krete, Inc.; Silane/Siloxane Water Repellent.
- i. Sonneborn Building Products, a division of ChemRex; White Roc 10 WB.
- j. Tamms Industries, Inc.; Baracade WB 244.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean substrate of substances that might interfere with penetration or performance of water repellents. Test for moisture content, according to water-repellent manufacturer's written instructions, to ensure that surface is dry enough.
1. Cast-in-Place Concrete: Remove oil, curing compounds, laitance, and other substances that could prevent adhesion or penetration of water repellents.
 2. Clay Brick Masonry: Clean clay brick masonry per ASTM D 5703.
- B. Test for pH level, according to water-repellent manufacturer's written instructions, to ensure chemical bond to silicate minerals.

- C. Protect adjoining work, including sealant bond surfaces, from spillage or blow-over of water repellent. Cover adjoining and nearby surfaces of aluminum and glass if there is the possibility of water repellent being deposited on surfaces. Cover live plants and grass.
- D. Coordination with Sealants: Do not apply water repellent until sealants for joints adjacent to surfaces receiving water-repellent treatment have been installed and cured.
 - 1. Water-repellent work may precede sealant application only if sealant adhesion and compatibility have been tested and verified using substrate, water repellent, and sealant materials identical to those used in the work.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLICATION

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect the substrate before application of water repellent and to instruct Applicator on the product and application method to be used.
- B. Apply a heavy-saturation spray coating of water repellent on surfaces indicated for treatment using low-pressure spray equipment. Comply with manufacturer's written instructions for using airless spraying procedure, unless otherwise indicated.
 - 1. Precast Concrete: At Contractor's option, first application of water repellent on precast concrete units may be completed before installing units. Mask sealant-bond surfaces to prevent water repellent from migrating onto joint surfaces.
- C. Apply a second saturation spray coating, repeating first application. Comply with manufacturer's written instructions for limitations on drying time between coats and after rainstorm wetting of surfaces between coats. Consult manufacturer's technical representative if written instructions are not applicable to Project conditions.

3.3 CLEANING

- A. Immediately clean water repellent from adjoining surfaces and surfaces soiled or damaged by water-repellent application as work progresses. Repair damage caused by water-repellent application. Comply with manufacturer's written cleaning instructions.

END OF SECTION 07 19 00