

SECTION 07175

WATER REPELLENTS

(FOR EXPOSED MASONRY AND CONCRETE WALL CONSTRUCTION)

Updated – October 23, 2008

PART 1 GENERAL

1.1 SECTION INCLUDES

1. Water repellent coating for external masonry and concrete surfaces.

1.2 RELATED SECTIONS

1. Section 04300 - Unit Masonry System: Masonry surfaces.
2. Section 07900 - Joint Sealers.

1.3 REFERENCES

1. ASTM C666 - Test Methods for Freeze-Thaw Durability.
2. ASTM C672 - Scaling Resistance.
3. ASTM D-658-44 - Abrasion Resistance

1.4 SUBMITTALS

1. Product Data: Provide data for material description, physical properties, recommended storage conditions, shelf life, precautions, and joint and crack sealants, with temperature range for application of water-repellent impregnating agent.
2. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

1.5 QUALIFICATIONS

1. Applicator Qualifications: The applicator of the roofing material specified herein shall be an approved applicator (designated by Hydro-Stop LLC). Proof of this qualification shall be provided in written form from the manufacturer of the roofing system.

1.6 QUALITY CONTROL

1. Codes and Standards: The contractor shall make him / herself thoroughly familiar with all codes, regulations, and standards governing the specified work. Any contradiction between the manufacturer's requirements and these specifications shall be brought to the attention of the manufacturer and the specifier.
2. Deviations: There shall not be any deviations from these specifications unless the deviation is submitted in writing to the specifier. The request for deviation must have a letter from the roofing manufacturer's technical department approving the details of the deviation.
3. An Approved Applicator (as designated by Hydro-Stop LLC) shall be on site during all applications of any Hydro-Stop products.
4. Manufacturer's Technical Representative: An employee of the roofing material manufacturer shall be on site at least once every 7-calendar days during the work specified herein. Upon request the technical representative shall provide a written inspection report, during each site visit and submit the reports to the owner/owner's representative.

1.7 DELIVERY, STORAGE, AND HANDLING

1. Deliver materials to site in manufacturer's unopened and undamaged containers bearing the following information:
 - Name of manufacturer.
 - Name of contents and products code.
 - Net volume of contents.
 - Lot or batch number.
 - VOC content
 - Storage temperature limits.
 - Shelf life expiration date.
 - Mixing instructions and proportions of contents.
 - Safety information and instructions.
2. Store and protect materials from damage and weather in accordance with manufacturer's instructions.
3. Store materials at temperatures between 50-90 degrees F (10.0-32.2 degrees Celsius). Keep out of direct sunlight.
4. Support stored material containers on pallets and cover with tarpaulin tied to bottom of pallets.

1.8 ENVIRONMENTAL REQUIREMENTS

1. Do not apply if ambient temperatures are expected to fall below 40 degrees F (4.5 degrees Celsius) or if rain is expected before the application has time to cure.

1.9 WARRANTY

1. Provide ten-year manufacturer's warranty.

PART 2 PRODUCTS

2.1 MANUFACTURER

- | | | |
|----------------------------|------------|--|
| 1. Hydro-Stop, LLC | Toll Free: | (800) 739-5566 |
| 1465 Pipefitter Street | Phone: | (843) 745-9600 |
| North Charleston, SC 29405 | Fax: | (843) 745-9602 |
| | Web: | www.hydro-stop.com |

2.2 MATERIALS

1. Water-Repellent Coating: ClearGuard Plus water carried repellent.
Characteristics: ClearGuard Plus is designed to reduce surface energy of Masonry surfaces and is an effective repellent against water, waterbased dirt and oil based dirt.

2.3 ACCESSORIES

1. Patching Mortar: Patching mortar for masonry repairs.

PART 3 EXECUTION

3.1 EXAMINATION

1. Verify substrate surfaces are durable; free of frozen matter, dampness, loose particles, cracks, pits, projections, or foreign matter detrimental to application of water-repellent system.

3.2 PREPARATION

1. Protect adjacent surfaces not designated to receive waterproofing.
2. As a minimum, clean and prepare surfaces to receive waterproofing by removing all loose and flaking particles, grease and laitance with the use of a stiff bristle push broom and or washing. Care should be taken not to inject water into the substrate during washing. In

some cases additional drying time may be required after the cleaning process. Please consult your Hydro-Stop LLC Technical Sales Representative for additional advice on cleaning various roofing substrates.

3. Make all necessary repairs to existing substrate. Contact Hydro-Stop Technical Representative for assistance.
4. Do not apply waterproofing to surfaces unacceptable to manufacturer.
5. Seal damaged mortar, cracks and joints with BarrierGuard patching material in accordance with manufacturer's instructions.

3.3 APPLICATION

1. Spray or brush-apply coating in accordance with manufacturer's instructions.
2. Thoroughly apply coating materials into joints, crevices, and open spaces.
3. Apply two coats of water-repellent coating at a total rate of 100-sq. ft/gal (2.3 sq. m/L).
4. Apply water repellent material by low pressure (less than 15 psi. / 103.4 kPa) spray in a wet on wet fashion allowing coating to run down surface 12-15 inches (30.48- 38.1 cm). First coat should not dry before second coat is applied.

3.4 CLEANING

1. Immediately clean adjacent work not scheduled to receive water-repellent coating in accordance with manufacturer's instructions.

END OF SECTION