

## Section 09 97 23

### Concrete Sealants CS-55 Waterborne Damp-Proof Coating

#### PART 1 – GENERAL

##### 1.1 SUMMARY

- A. **Section Includes:** Materials, application, and best practices for the supply and installation of coatings to concrete substrates.

##### 1.2 SYSTEM DESCRIPTION

- A. **Waterborne Damp-Proof Coating:** Topical, water-based, low-VOC coating for use on the exterior of most concrete structures that will experience submergence or intermittent submergence in water and groundwater, and for use on the interior of most concrete structures where non-corrosive conditions exist.

##### 1.3 SUBMITTALS

- A. **General:** If any portion of Contract Documents does not conform to manufacturer's standard recommendations, submit notification of portions of design at variance with manufacturer's specifications.
- B. **Product Data:** Submit manufacturer's product technical data sheet including application instructions.

##### 1.4 RELATED SECTIONS

- A. Section 03 30 00 – Cast-in-Place Concrete
- B. Section 03 40 00 – Precast Concrete

##### 1.5 QUALITY ASSURANCE

- A. **Manufacturer Qualifications:** Manufacturer shall be ISO 9001 registered.
- B. **Applicator:** Coating applicator shall be experienced in the installation of waterborne damp-proofing coatings.

- C. **Technical Consultation:** The coating manufacturer's representative shall provide technical consultation and support as needed.

## 1.6 DELIVERY, STORAGE AND HANDLING

- A. **Ordering:** Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- B. **Delivery:** Deliver packaged coating materials to project site or to concrete production facility in original undamaged containers with manufacturer's labels and seals intact.
- C. **Identification:** Containers shall be fully identified with manufacturer's label listing type, grade, class, and other qualifying information. Provide product's safety data sheet.
- D. **Storage:** Store coating materials at temperatures between 40 degrees Fahrenheit and 90 degrees Fahrenheit.

## 1.7 PROJECT CONDITIONS

- A. **Compliance:** Comply with manufacturer's product technical data sheet regarding condition of the substrate to receive the damp-proof coating, application instructions, weather and temperature conditions before and during installation, and protection of the installed coating system.

## 1.8 WARRANTY

- A. **Project Warranty:** Refer to conditions of the Contractor for project warranty provisions.
- B. **Manufacturer's Warranty:** This information is presented in good faith, but we cannot anticipate all conditions under which this information and our products, or the products of other manufactures in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combinations for their own purposes. It is the **users' responsibility** to satisfy himself as to the suitability and completeness of such information for his own particular use. We sell this product without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of this product, whether used alone or in combination with other products.

## PART 2 – PRODUCTS

### 2.1 MANUFACTURERS

- A. **Acceptable Manufacturer:**  
Concrete Sealants, Inc.  
9325 State Route 201; Tipp City, OH 45371  
Phone: (800) 332-7325; Fax: (937) 845-3587  
E-mail: [hello@conseal.com](mailto:hello@conseal.com); Website: [www.conseal.com](http://www.conseal.com)
- B. **Substitutions:** No substitutions permitted.
- C. **Source Quality:** Obtain all damp-proof coating products from a single manufacturer.

### 2.2 MATERIALS

- A. **System Description:** Topical, water-based, low-VOC coating.
- B. **Acceptable Product:** Concrete Sealants CS-55.

## PART 3 – EXECUTION

### 3.1 MANUFACTURER'S INSTRUCTIONS

- A. Comply with manufacturer's product technical data sheet regarding condition of the substrate to receive the damp-proof coating, application instructions, weather and temperature conditions before and during installation, and protection of the installed coating system.

### 3.2 PREPARATION

- A. **Verification of Substrates:** All concrete surfaces shall be sound; clean; free of contaminants including dust, dirt, and oil; free of form release agents and materials used to cure the concrete; and free of any other potential contaminants. All surfaces shall be cleaned by brush blasting.
- B. **Substrate Preparation:** Prepare concrete in accordance with SSPC-SP 13/NACE No. 6, Surface Preparation of Concrete. An acceptable prepared concrete surface should be free of contaminants, laitance, loosely adhering concrete, and dust, and should provide a sound, uniform substrate suitable for the application of a protective coating. All surfaces shall be completely dry prior to coating application.

### 3.3 APPLICATION

- A. **Mixing:** Stir thoroughly prior to use. Do not thin or dilute product.
- B. **Precautions and Recommendations:** Apply product to concrete structures that are between 40 degrees Fahrenheit and 120 degrees Fahrenheit. Do not apply product to frozen or wet concrete. Apply product using a roller, brush, or spray gun. If applying product with an airless spray gun, a spray tip of 0.015” to 0.021” is recommended. To avoid cracking, do not allow product to pool and do not apply the coats too thick. When applying multiple coats of the product, apply subsequent coats at right angles to maximize coating integrity. When spraying, hold spray gun 12” to 24” away from the substrate surface, and spray an event, light coat over the entire surface.
- C. **Application:** Apply each coat of the product at a thickness of about 3 mils dry film thickness per coat, which equates to a coverage rate of about 250 square feet per gallon. When the coating is dry to the touch (in about 30 minutes or less), the next coat may be applied. Apply three coats, for a total dry film coating thickness of at least 9 mils.

### 3.4 CLEANING AND PROTECTION

- A. **Cleaning:** Clean product spillage while wet using warm, soapy water.

End of Section 09 97 23