

Section 03 39 35

Concrete Sealants ConBlock Topical Water-Repelling Penetrating Sealer for Concrete Sanitary Structures

PART 1 – GENERAL

1.1 SUMMARY

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

1.2 SYSTEM DESCRIPTION

- A. **Water-Repelling Concrete Sealer:** Topical concrete sealer for use on most concrete sanitary structures including sanitary sewer manholes and other structures that will experience submergence or intermittent submergence in water and groundwater.

1.3 RELATED SECTIONS

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

1.4 REFERENCES

- A. **American Society of Testing and Materials International (ASTM):**
1. ASTM C1904, “Standard Test Methods for Determination of the Effects of Biogenic Acidification on Concrete Antimicrobial Additives and/or Concrete Products”

1.5 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.

1.6 QUALITY ASSURANCE

- A. **Manufacturer Qualifications:** Manufacturer shall be ISO 9001 registered.
- B. **Applicator:** Product applicator shall be experienced in the installation of topical concrete sealers.
- C. **Technical Consultation:** The sealer manufacturer's representative shall provide technical consultation and support as needed.

1.7 DELIVERY, STORAGE AND HANDLING

- A. **Ordering:** Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- B. **Delivery:** Deliver packaged sealing 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 sealer materials at temperatures between 40 degrees Fahrenheit and 100 degrees Fahrenheit.

1.8 PROJECT CONDITIONS

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

1.9 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; Website: www.conseal.com
- B. **Substitutions:** No substitutions permitted.
- C. **Source Quality:** Obtain all sealer products from a single manufacturer.

2.2 MATERIALS

- A. **System Description:** Topical water-repelling sealer for concrete sanitary structures.
- B. **Performance:** When used in accordance with the manufacturer's recommendations, the product shall satisfy the following requirements:
 - 1. Shall prevent pH from dropping below the initial level when tested in accordance with ASTM C1904 Test Method B.
- C. **Acceptable Product:** Concrete Sealants ConBlock Topical. Available in clear or blue tint.

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 sealer, application instructions, weather and temperature conditions before and during installation, and protection of the installed product.

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 sealer. All surfaces shall be completely dry prior to sealer application.

3.3 APPLICATION

- A. **Mixing:** Stir prior to use. Do not thin or dilute product.
- B. **Precautions and Recommendations:** Apply product to concrete structures that are at least 40 degrees Fahrenheit. Do not apply product to frozen or wet concrete. Apply product using a sponge mop, roller, microfiber pad, or airless sprayer. If applying product with an airless sprayer, a spray tip of 0.015" is recommended. Replace the lid on the product container immediately after use if the container is not empty.
- C. **Application:** Apply an even coat of the product at a coverage rate of 150-200 square feet per gallon and allow the product to dry.

3.4 CLEANING AND PROTECTION

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

End of Section 03 39 35