

## Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, as described in *The Project Resource Manual—CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all “Specifier Notes” when editing this section.

Section numbers are from *MasterFormat 1995 Edition*, with numbers from *MasterFormat 2004 Edition* in parentheses. Delete version not required.

### SECTION 03050 (03 05 00)

#### CONCRETE WATERPROOFING COMPOUND

Specifier Notes: This section covers Conselcor “StableCrete<sup>™</sup>” concrete waterproofing compound for interior and exterior, new and existing concrete. StableCrete can also be applied to brick, stucco, and masonry surfaces. Consult Conselcor for assistance in editing this section for the specific application.

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

Specifier Notes: Edit the following if StableCrete is to be applied to brick, stucco, or masonry surfaces.

- A. Concrete waterproofing compound.

##### 1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

- A. Section 03300 (03 30 00) - Cast-in-Place Concrete.
- B. Section 03370 (03 37 13) - Shotcrete.

### 1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. ASTM C 140 - Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units.
- B. ASTM C 672 - Standard Test Method for Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals.
- C. ASTM D 714 - Standard Test Method for Evaluating Degree of Blistering of Paints.
- D. ASTM D 5084 - Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter.
- E. ASTM NCHRP 244 - Concrete Sealers for Protection of Bridge Structures.

### 1.4 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including surface preparation and application instructions.
- C. Warranty: Submit manufacturer's standard warranty.

### 1.5 QUALITY ASSURANCE

Specifier Notes: Edit pre-application meeting as required for the project.

- A. Pre-application Meeting: Convene a pre-application meeting before start of application of concrete waterproofing compound. Require attendance of parties directly affecting work of this section, including Contractor, Architect, and applicator. Review surface preparation, application, protection, and coordination with other work.

### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage:
  - 1. Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
  - 2. Do not store materials below 35 degrees F (2 degrees C).
  - 3. Do not allow materials to freeze in container.
  - 4. Keep containers sealed until ready for use.
- C. Handling: Protect materials during handling and application to prevent damage or contamination.

### 1.7 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply concrete waterproofing compound when air, surface, or material temperatures are below 32 degrees F (0 degrees C) or above 90 degrees F (32 degrees C).
- B. Do not apply concrete waterproofing compound during rain or snow.

## **PART 2 PRODUCTS**

### **2.1 MANUFACTURER**

- A. Conselcor, Inc., 520 East Eau Gallie Boulevard, Indian Harbour Beach, Florida 32937. Phone (321) 779-4478. Fax (321) 779-0694. Website [www.conselcor.com](http://www.conselcor.com). E-mail [Glenn.Summers@att.net](mailto:Glenn.Summers@att.net).

### **2.2 CONCRETE WATERPROOFING COMPOUND**

- A. Concrete Waterproofing Compound: StableCrete.
  - 1. Type: Polymerized polyester polymer. Non-toxic, non-flammable, water-soluble liquid.

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| Specifier Notes: Specify quality control red dye tint if required. Red dye tint for quality control purposes is optional. |
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- 2. Color: Translucent [with quality control red dye tint].
  - 3. Sheen: Non-film forming.
  - 4. Solids by Weight: 4.67 percent.
  - 5. Weight per Gallon: 8.7 pounds, plus or minus 0.2 pounds.
  - 6. Viscosity: Same as water.
- B. Test Results:
  - 1. Blister Rating, Water Resistance, ASTM D 714: 10, no blisters.
  - 2. Mass Absorption Test, ASTM C 140:
    - a. 2 Days: 0.56 percent.
    - b. 50 Days: 0.92 percent.
  - 3. Absorbed Chloride, ASTM NCHRP 244:
    - a. Cube Test: Passed.
    - b. Southern Exposure: Passed.
  - 4. Scaling Resistance, ASTM C 672: Passed.
  - 5. Chloride Penetration Resistance, ASTM C 672: No chloride penetration at any depth.
  - 6. Porosity, ASTM D 5084: No change in water column height after 28 days.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Examine surfaces to receive concrete waterproofing compound.
- B. Notify Architect if surfaces are not acceptable.
- C. Do not begin surface preparation or application until unacceptable conditions have been corrected.

### **3.2 SURFACE PREPARATION**

- A. Protect surfaces not to receive concrete waterproofing compound.
- B. Prepare surfaces in accordance with manufacturer's instructions.
- C. Remove dirt, dust, debris, oil, grease, asphalt, loose material, foreign matter, parting compounds, and other surface contaminants which could adversely affect proper application of concrete waterproofing compound.
- D. Thoroughly wash surfaces to restore natural pH of substrate before application of concrete waterproofing compound, if concrete cleaner is used.
- E. Mechanically remove membranes on existing concrete.
- F. Test existing surfaces for water absorption to ensure absorption of concrete waterproofing compound into substrate.
- G. Ensure surfaces are sound, dry, and not frozen.
- H. Repair or replace damaged surfaces and fill-in cracks as approved by Architect.
- I. Repair surfaces and remove parting compounds after form stripping on vertical concrete surfaces.

### **3.3 APPLICATION**

- A. Apply concrete waterproofing compound in accordance with manufacturer's instructions.
- B. Do not thin concrete waterproofing compound.
- C. Apply concrete waterproofing compound at spreading rate in accordance with manufacturer's instructions.
- D. Ensure uniform distribution and full-coat continuous coverage of concrete waterproofing compound.
- E. Do not allow ponded concrete waterproofing compound to dry on surface.
- F. Ensure concrete waterproofing compound remains in contact with substrate to be absorbed into concrete.

### **3.4 PROTECTION**

- A. Protect applied concrete waterproofing compound from heavy traffic for a minimum of 24 hours.

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| Specifier Notes: Delete the following sentence if the surfaces will not be painted. |
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- B. Allow a minimum of 48 hours after application of concrete waterproofing compound before painting surfaces.

**END OF SECTION**