

# Water Repellents

**Section 09800 or 09 97 23  
Clear Sealer (Aqueous)**

**CONPRO SHIELD QS2**

## **PART I: GENERAL**

### **1.01 DESCRIPTION**

Provide labor, materials, equipment and supervision necessary to complete the application of product to existing substrate.

### **1.02 QUALITY ASSURANCE**

Products shall be installed by a trained applicator with a minimum of five years experience and meet the requirements of the specifier.

### **1.03 SUBMITTALS**

- A. Manufacturer's current product data bulletin.
- B. The trained applicator shall prepare a test panel of the repair installed on the actual structure as a submittal for approval of proper application and adhesion.
- C. The trained applicator shall submit to the specifier a list of five projects that he has completed within the last five years, exhibiting the applicator's skills. The list shall include project name, location, and description of work and completion date.

### **1.04 PRODUCT DELIVERY, STORAGE & HANDLING**

- A. Deliver all products and all accessories in original labeled, sealed, and undamaged containers or bundles.
- B. Store all products in accordance with manufacturer's printed instructions.
- C. Handle products in accordance with manufacturer's printed instructions.

### **1.05 JOB CONDITIONS**

All products shall be applied at substrate and ambient temperatures of 45°F or above. A minimum temperature of 45°F shall be maintained 24 hours after completion of work. Protect products from weather and other damage for a period of 24 hours after installation. Do not apply products to frozen surfaces.

### **1.06 COORDINATION & SCHEDULING**

The work requires close coordination with related sections and trades.

## **PART II: PRODUCTS**

### **2.01 MANUFACTURERS**

The following manufacturers are approved for the project.

Conproco Corporation

## 2.02 MATERIALS

Shield QS2: A high solids, single-component, water-based, clear sealer used to enhance, beautify and protect concrete, masonry and stone.

## 2.03 PERFORMANCE CHARACTERISTICS

General Physical Properties: The products shall meet or exceed the following performance standards:

Physical state and appearance		
Wet		Milky – white – liquid
Dry		Clear – glossy – plastic-like film
Base		Aqueous
Polymer		Carboxylated styrene acrylic
pH		9.5 – 10
Percent solids by weight		33.9%
Flash point	ASTM D56	150°F Seta cc
Volatile organic content – VOC	ASTM D3960	231.8 gms./liter
Density of liquid coatings	ASTM D1475	8 lbs./gal.
Water vapor transmission	ASTM E96	11 perms – 1 coat
Accelerated weathering – QUV	ASTM G154	2000 hours – UV-B cycled with condensation- no effect
Resistance to chemicals	ASTM D1308	Motor oil/Vegetable oil – excellent Soil/Grease/Ketchup – excellent
Water penetration and leakage	ASTM E514	100% reduction
Freeze/thaw stability	ASTM C932	Pass – 5 cycles @ 15°F
Heat stability	ASTM C932	Pass – 4 weeks @ 120°
Gloss – concrete paver	ASTM D523	85°F untreated 1.5 – treated 11.0 60°F untreated 1.5 – treated 11.0

## **PART III: EXECUTION**

### 3.01 GENERAL

- A. Installation shall be performed strictly in accordance with manufacturer’s current product data bulletin.
- B. Examine substrates and conditions under which materials will be installed. Do not proceed with installation until unsatisfactory conditions are corrected.
- C. Coordinate installation with adjacent work to ensure proper sequence of construction. Protect adjacent areas and landscaping from contact due to mixing, handling, and application of materials.

### 3.02 SURFACE PREPARATION

- A. Surfaces to be treated must be clean and free of frost, loose debris, coatings, dirt, mildew, oils and grease, or any other substance that would interfere with penetration. Surface must be sound, frost-free and dry. A dry surface is necessary to allow maximum penetration into the substrate.
- B. A test application is always recommended to insure appearance and coverage.
- C. Refer to ICRI Surface Preparation Guide 03732.

### 3.03 MIXING

Mix until homogeneous. Do not use high-speed mixers or over mix.

### 3.04 APPLICATION

- A. Apply with a brush, roller or low-pressure sprayer. Apply to a uniform thickness (3 to 5 mils) per coat. The substrate must be completely dry when applying.

- B. Areas such as fringes, edges and borders should first be cut in with a brush as needed. Do not allow ponding on horizontal surfaces. Soak up or broom out any ponding that does occur.
- C. On dense surfaces like stone or slate, one coat is usually sufficient. If surface is porous, two coats may be necessary. Additional coats will increase gloss and decrease surface tension.
- D. Allow first coat cure 10 hours at 72°F or above, 24 hours at 45°-50°F before applying subsequent coat.
- E. A test panel should be performed to determine if the appearance is satisfactory and to determine number of coats required to achieve desired appearance.
- F. Do not apply if temperature of the substrate and atmosphere is below 45°F for 24 hours.

### **3.05 CURING**

Protect from moisture for 24 hours. Material is fully cured in three days.

### **3.06 JOB SITE CLEANUP**

- A. Material left over at the job site by the approved applicator shall be removed.
- B. All adjacent surfaces and materials shall be cleaned.
- C. Clean glass with glass cleaner before material can dry.

\*\*\*\*\*END OF SECTION\*\*\*\*\*



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