

**EZ EXPOSE**

**Concrete Surface Retarder for Exposed Aggregate Concrete**

***{Note to Specifier: The paragraphs below are meant to be incorporated into Parts 2 and 3 of a standard CSI 3 Part Format specification, project’s General Structural Notes or directly onto the plans. They must be carefully reviewed by a qualified design professional and edited to meet the particular requirements of the project at hand, assure compliance with any governing building codes, and coordinate with other specification sections and drawings. In no case shall these Guide Specifications be considered to be Contract Documents or serve as installation instructions for the product being discussed. In any cases of discrepancy the manufacturer's most recently published data sheet shall take precedent.}***

**PART 1 GENERAL**

*Note to Design professional: For projects in which appearance is highly critical, it is recommended that a sample mockup be completed prior full scale operations Pour sample, evaluate the degree of desired aggregate loading and the degree of concrete/cement etching.*

*Insert mockup size below.*

1.\_\_ QUALITY ASSURANCE

A. Mockups: Cast concrete **[4 foot by 4 foot] <<insert size>>** slab-on-ground panels to demonstrate typical joints, surface finish, aggregate exposure, texture, tolerances, sealer treatments, and standard of workmanship. Construct mockup utilizing same personnel, materials, tools and procedures that will be used in full scale construction.

1. Build mockup in location indicated or, if not indicated, as directed by architect.

2. Divide panel into four equal panels to demonstrate control jointing techniques.

**PART 2: PRODUCTS**

2.\_\_` CONCRETE SURFACE SET RETARDER

A. Concrete Surface Set Retarder: A water-based concrete surface set retarder used to create an exposed aggregate finish on freshly-poured concrete. Available in 4 grades providing finishes from a sandblast etch up to 1 inch (25mm) depth for large decorative stone exposure.

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1. Basis of Design Product:

1. **EZ Expose by Euclid Chemical Company, Cleveland, OH**

Grade, Product Color, Etch Depth, Aggregate Exposure

**[EZ EXPOSE 5 Blue Sandblast finish Micro-etch]**

**[EZ EXPOSE 25 Peach Up to 1/4 in (6.5 mm) light]**

**[EZ EXPOSE 100 Gray 1/8 to 1/2 in (3 to 12.5 mm) medium]**

**[EZ EXPOSE 200 Pink 5/8 to 1 in (16 to 25 mm) full-depth]**

2.\_\_ CURING AND SEALING

Note to Specifier: Choose from curing and sealing options below.

A. Curing and Sealing Compound: Provide clear, water-based, non-yellowing acrylic curing and sealing compound meeting ASTM C309 by same manufacturer as Concrete Surface Retarder.

1. Basis of Design Product:

**[a. Semi-gloss sealer, EverClear VOX by Euclid Chemical]**

**[b. High gloss sealer, Diamond Clear VOX by Euclid Chemical.]**

B. Manufacturer must have ISO 9001 Quality Certification.

**PART 3: EXECUTION**

3.\_\_ APPLICATION

A. Pour concrete slab. Bull float slab to achieve specified floor elevation, slope and pitch.

B. Where colored or other special aggregates are called for, seed / broadcast these aggregates into top surface of freshly placed concrete and repeat bull floating to encapsulate aggregates just below top surface.

C. Apply Concrete Surface Set Retarder in accordance with manufacturer’s written recommendations, after initial bleed water rises but before water dissipates. Apply Retarder while concrete is fresh and plastic. Apply set retarder with pump sprayer or roller evenly at a uniform square foot coverage rate per gallon.

D. Allow concrete to tighten and harden to point where it will support pedestrian traffic without being damaged. Typically 8 to 16 hours. Once concrete can be walked on without damage, rinse surface with garden hose and a stiff broom or pressure washer to expose top surface of embedded aggregates.

E. Immediately following exposing of aggregates, flush slab clean with potable water until all loose aggregates, cement paste, sand and fines are removed from slab.

3.\_\_ APPLICATION OF SURING AND SEALING COMPOUND

A. Apply two uniform coats of specified sealer in accordance with manufacturer's written instructions and precautions and limitations.

END OF GUIDE SPECIFICATIONS