



Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format. The section must be carefully reviewed and edited by the Architect or Engineer 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 03050

CONCRETE CURING AND SEALING COMPOUNDS

Specifier Notes: This section covers Euclid “Diamond Clear VOX” VOC-compliant concrete curing and sealing compound. Diamond Clear VOX is a ready-to-use, water-based acrylic copolymer emulsion for use on new and existing, interior and exterior, horizontal and vertical concrete surfaces. Consult Euclid for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Curing and sealing compounds for interior and exterior concrete surfaces.

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 - Cast-in-Place Concrete.

1.3 REFERENCES

- A. AASHTO M 148 - Liquid Membrane-Forming Compounds for Curing Concrete.
- B. ASTM C 309 - Liquid Membrane-Forming Compounds for Curing Concrete.

1.4 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer’s product data, including surface preparation and application instructions.

- C. Manufacturer's Certification: Submit manufacturer's ISO 9001/9002 certification.

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: ISO 9001/9002 registered or provide proof of documented quality assurance system. Quality assurance system shall be registered by independent registrar accredited by ANSI Registrar Accreditation Board (ANSI-RAB) or by another internationally recognized body.

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: Store materials in clean, dry area in accordance with manufacturer's instructions. Keep containers sealed until ready for use. Quality of Diamond Clear VOX is reduced if allowed to freeze.
- C. Handling: Protect materials during handling and application to prevent damage or contamination.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply curing and sealing compound when concrete surface or air temperatures are below 40 degrees F (4 degrees C).
- B. Do not apply curing and sealing compound when material temperature is below 50 degrees F (10 degrees C).

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. The Euclid Chemical Company, 19218 Redwood Road, Cleveland, Ohio 44110. Toll Free (800) 321-7628. Phone (216) 531-9222. Fax (216) 531-9596. Web Site www.euclidchemical.com.

2.2 MATERIALS

- A. VOC-Compliant Concrete Curing and Sealing Compound: Diamond Clear VOX VOC-compliant curing, sealing, hardening, and dustproofing compound.
 1. Type: Acrylic emulsion blend.
 2. Compliance:
 - a. ASTM C 309, Type 1, Class B.
 - b. AASHTO M 148, Type 1.
 - c. Meets maximum VOC content of 350 g/L in accordance with EPA 40 CFR Part 59, Table 1, Subpart D for concrete curing compounds.
 - d. Meets California and New Jersey air quality standards.
 3. VOC Content: 325 g/L.
 4. USDA approved.
 5. Ultraviolet resistant.
 6. Reduced odor.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine concrete surfaces to receive curing and sealing compound. Notify Architect if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions are corrected.

3.2 SURFACE PREPARATION

- A. Prepare concrete surfaces in accordance with manufacturer's instructions.
- B. Ensure surfaces are clean and free of standing water.
- C. Remove dirt, dust, oil, grease, sealers, and other materials that may prevent adhesion of curing and sealing compound.

3.3 APPLICATION

- A. Apply curing and sealing compound to concrete surfaces in accordance with manufacturer's instructions.
- B. Apply compound at uniform coverage rate in accordance with manufacturer's instructions.
- C. Apply as soon as possible after finishing and immediately after disappearance of surface moisture sheen, when used to cure freshly placed concrete.
- D. Do not apply to concrete to receive toppings, epoxy coatings, urethane coatings, or epoxy adhesives.
- E. Do not use as a bond breaker for tilt-up construction.
- F. Do not dilute curing and sealing compound.
- G. Cure concrete surfaces as specified in Section 03300.

3.4 PROTECTION

- A. Protect horizontal surfaces from traffic until curing and sealing compound has cured.

END OF SECTION