

GUIDE SPECIFICATION FOR DECRA-SEAL: NON-YELLOWING ACRYLIC CURING AND SEALING COMPOUND FOR DECORATIVE CONCRETE

SECTION 03050

CONCRETE CURING AND SEALING

Specifier Notes: This guide specification is written according to the Construction Specifications Institute (CSI) Format. The section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project. Coordinate this section with other specification sections and the drawings.

Specifier Notes: W.R. Meadows DECRA-SEAL is a non-yellowing, clear, transparent, acrylic, curing and sealing compound for decorative concrete. It is designed for various applications, including exterior concrete surfaces, driveways, patios, swimming pool areas, exposed concrete, as well as any exterior surface where protection and sealing of concrete is desired. DECRA-SEAL produces a durable long-lasting finish that has improved resistance to chemicals, oil, grease, de-icing salts, and abrasions. DECRA-SEAL meets the maximum VOC content limits of 700 g/L for Concrete Curing and Sealing Compounds as required by the U.S. EPA Architectural Coatings Rule. This product is specifically formulated for the residential decorative concrete market.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Application of clear, acrylic, curing and sealing compound for decorative concrete.

1.02 RELATED SECTIONS

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

- A. Section 03300 - Cast-in-Place Concrete.

1.03 REFERENCES

- A. ASTM C309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.
- B. ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete.
- C. AASHTO M 148 - Liquid Membrane Forming Compounds for Curing Concrete.
- D. U.S. Environmental Protection Agency Architectural Coatings Rule.

1.04 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.

- B. Submit manufacturer's product data and application instructions.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Store materials in a clean dry area in accordance with manufacturer's instructions.
- C. Keep away from sparks and flames.
- D. Avoid direct contact with this product as it may cause irritation of the eyes and/or skin.
- E. Protect materials during handling and application to prevent damage or contamination.
- F. Do not dilute curing and sealing compound.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. Apply curing and sealing compound in exterior applications only.
- B. Do not apply curing and sealing compound if the temperature of the concrete is below 40°F (4°C).
- C. Avoid application in direct sunlight combined with high temperatures.
- D. Do not apply to concrete exposed to excessive moisture.
- E. Do not use on dense or non-porous surfaces.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. W.R. Meadows, Inc., PO Box 338, Hampshire, Illinois 60140-0338. (800) 342-5976. (847) 683-4500. Fax (847) 683-4544. Web Site www.wrmeadows.com.

2.02 MATERIALS

- A. Performance Based Specification: Acrylic curing and sealing compound shall be a non-yellowing, clear, acrylic curing and sealing compound meeting the following requirements:
 - 1. ASTM C309, Type 1, Class A and B.
 - 2. AASHTO M 148, Type 1, Class B.
 - 3. ASTM C1315 Ultraviolet Resistance – Class A - Non-yellowing
Chalk Resistance – No chalking
Check/Peel Resistance – No deterioration
 - 4. Dried film accepted by USDA.
 - 5. Meets the maximum VOC content limits of 700 g/L for Concrete Curing and Sealing Compounds as required by the U.S. EPA Architectural Coatings Rule.
- B. Proprietary Based Specification: Decra-Seal Non-Yellowing Acrylic Curing and Sealing Compound for Decorative Concrete by W.R. Meadows.

PART 3 EXECUTION

3.01 EXAMINATION

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

3.02 SURFACE PREPARATION

- A. Protect adjacent surfaces not designated to receive curing and sealing compound.
- B. Clean and prepare surfaces to receive curing and sealing compound in accordance with manufacturer's instructions ensuring that all stains, oil, grease, form release agents, dust and dirt removed prior to application.
- C. Ensure surface is clean and free from all powdered release agent residue.
- E. Apply curing and sealing compound when surface water has completely disappeared on new concrete.
- F. Ensure concrete surface will not be marred by walking workmen.

3.03 APPLICATION

- A. Apply curing and sealing compound in accordance with manufacturer's instructions.
- B. Apply a uniform film using a standard industrial-grade sprayer, equipped with a neoprene hose and gaskets, as well as a 9505-E spray tip. Alternatively, apply using a short nap roller.

3.04 PROTECTION

- A. Restrict foot traffic for at least 4 hours, 12 hours is preferable.

END OF SECTION