

GUIDE SPECIFICATION FOR VOCOMP®-20: WATER-BASED ACRYLIC CURING AND SEALING COMPOUND

SECTION 03 39 23

MEMBRANE CONCRETE CURING

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: VOCOMP-20 water-based acrylic curing and sealing compound is formulated using special acrylic polymers in a true water-based carrier. Once properly applied, VOCOMP-20 provides a durable film for efficient moisture retention. VOCOMP-20 appears milky white in the container and, when first applied, leaves a bluish cast on the concrete for easy visual confirmation of coverage. VOCOMP-20 dries clear to provide a transparent sheen finish. The sheen can be controlled by the number of coats applied. VOCOMP-20 resists yellowing from ultraviolet exposure and provides a durable, long-lasting finish that offers improved resistance to chemicals, petroleum, and abrasives. VOCOMP-20 will minimize hair-checking, premature cracking, dusting, and spalling. However, good concrete and good concreting practices should be used, as VOCOMP-20 is not a cure-all for improperly mixed or placed concrete.

VOCOMP-20 water-based acrylic curing and sealing compound may be quickly and easily applied to simultaneously cure and/or seal new interior or exterior as well as vertical or horizontal concrete surfaces. It is ideal for application on commercial and industrial floors, sidewalks, basement and garage floors, multi-level parking decks, patios, driveways, and parking areas. VOCOMP-20 dries very quickly to protect and enhance the natural appearance of concrete.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Application of clear, water-based acrylic curing and sealing compound.

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 03 30 00 - Cast-in-Place Concrete.

1.03 REFERENCES

- A. ASTM C 309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.
- B. ASTM C 1315 - 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. USDA - United States Department of Agriculture.

1.04 SUBMITTALS

- A. Comply with Section 01 33 00 - 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 product from freezing.
- D. Avoid direct contact with this product as it may cause mild-to-moderate irritation of the eyes and/or skin.
- E. Protect materials during handling and application to prevent damage or contamination.
- F. Do not mix any compound containing solvent.
- G. Do not mix or agitate aggressively as foaming can occur.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply product when air, surface, or material temperatures are expected to fall below 40° F (4° C) within four hours of expected application.
- B. Do not apply to frozen concrete.
- C. Do not use on dense or 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. Website www.wrmeadows.com.

2.02 MATERIALS

- A. Performance Based Specification: Water-based acrylic curing and sealing compound shall be a non-yellowing, clear, acrylic curing and sealing compound meeting the following requirements:
 - 1. ASTM C 309, Type 1, Class B
 - 2. AASHTO M 148, Type 1, Class B
 - 3. ASTM C 1315, Class A, Section 6.4.1 – non-yellowing
 - 4. ASTM C 1315, Section 6.6 – exceed 50 MPa (70 psi) adhesion requirements
- 2. Proprietary Based Specification: VOCOMP-20 acrylic curing and sealing compound 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.
- C. Ensure concrete surface is clean and dry, with all stains, oil, grease, dust, and dirt removed.
- D. Concrete surface water should be dissipated when used on new concrete.
- E. Concrete surfaces should not be marred by walking workers.

3.03 APPLICATION

- A. Apply curing and sealing compound in accordance with manufacturer's instructions.
- B. Ensure product is mixed for optimum performance. Avoid aggressive mixing as foaming may occur.
- C. Use an industrial sprayer with a 5916 tip that produces a flow rate of 1/10 of one gallon per minute under 0.276 MPa (40 psi) of pressure.
- D. Spray on in a fine, fog pattern, without spurts and dribbles, to form a thin, continuous film.
- E. Alternatively apply using a lint-free roller or lamb's wool roller.
- F. Avoid puddling in low areas.

3.04 PROTECTION

- A. Restrict foot traffic for at least four hours; 12 hours is preferable.

END OF SECTION