



## DATA SHEET NO. 3551-300

### CS-309™-30

#### Concrete Curing & Sealing Compound (VOC-Compliant)

##### DESCRIPTION

CS-309-30 acrylic curing and sealing compound offers a 30% solids content. It is a clear, transparent, ready-to-apply, non-yellowing liquid compound formulated from special acrylic polymers and quick-evaporating solvents that effectively and economically cures and seals freshly placed concrete. CS-309-30 meets the 350 g/L VOC limit for concrete curing compounds.

Once properly applied, CS-309-30 provides a premium-grade seal for superior moisture retention. This produces a hard, dense, high-compressive strength concrete.

##### USES

CS-309-30 is ideal for application on commercial and industrial concrete surfaces, sidewalks, patios, multi-level parking decks, driveways, and parking areas ... wherever you want to simultaneously cure and seal exterior concrete surfaces. The use of CS-309-30 on any exterior concrete surface provides a durable, long-lasting finish that has improved resistance to chemicals, oil, grease, de-icing salts, and abrasion. CS-309-30 provides an attractive, low sheen finish that enhances the natural appearance of the concrete.

For interior applications, specify and apply VOCOMP®-20, VOCOMP-25, or VOCOMP-30 curing and sealing compound from W. R. MEADOWS.

##### FEATURES/BENEFITS

- Permeable film allows moisture in cured concrete to evaporate.
- Provides an economical, non-yellowing, durable, tough, uniform, premium-grade, long-lasting film finish on exterior concrete surfaces.
- Cures, hardens, dustproofs and seals freshly placed concrete simultaneously in one application.

- Produces a premium-grade seal yielding superior moisture retention.
- Minimizes hair-checking, cracking, dusting, spalling, and other defects common to improperly cured concrete.
- Resists discoloration due to ultraviolet degradation.
- Provides improved resistance to chemicals, oil, grease, de-icing salts, and abrasion during construction.
- Provides an attractive sheen that enhances the natural appearance of concrete.
- Applies easily ... dries quickly for less downtime.
- Permits easy cleanup and housekeeping ... reduces floor maintenance costs.
- Minimizes excessive shrinkage.
- Increases both compressive and tensile strengths for greater resistance to cracking and surface crazing.

##### PACKAGING

3.78 litre pails, 18.9 litre pails, 205 litre drums

##### COVERAGE

7.35 – 14.7 m<sup>2</sup>/litre (300 – 600 ft.<sup>2</sup>/U.S. gal.)

Coverage may vary due to porosity and condition of concrete.

##### SPECIFICATIONS

- ASTM C 1315, Type 1, Class A
- ASTM C 309, Type 1, Class A & B
- AASHTO M 148, Type 1, Class A & B
- Complies with Canada VOC Concentration Limits for Architectural Coatings Regulations

##### APPLICATION

**Surface Preparation** ... Apply as soon as all surface water has disappeared and the concrete surface will not be marred by walking workers. Surface to receive sealer must be dry and free of contaminants. Remove all stains or discolourations.

**Application Method** ... Apply using low-pressure sprayer. An 80° fan pattern spray tip rated at 1.8 L (1.0 gpm) provides an excellent even coating. Please contact sprayer manufacturer to ensure suitability of sprayer with product.

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Product should not be applied during high temperature conditions in direct sunlight. These conditions cause rapid evaporation, which does not allow the film to form properly. Under these conditions, the film may peel, bubble, and/or turn white (blush).

Apply product as soon as all surface water has disappeared and the concrete surface will not be marred by walking workmen. Apply evenly over entire surface; avoid puddling in low areas. Restrict foot traffic for at least four hours. Twelve hours is preferred.

Product should not be applied to concrete containing excessive moisture. Entrapped moisture in a solvent-based sealer may cause the film to peel and/or turn white (blush).

Additional coats may be applied once a previous coat has dried.

For optimum protection, apply a further coating of the product and/or apply a coating of HIAC™, or HIAC-PLUS  
Note: Concrete must be a minimum of seven days old prior to the application of HIAC or HIAC-PLUS.

Note: In cases when product is applied to existing concrete surfaces (more than 28 days old), the variations in colouration of the sands and aggregate present in the existing surface may be enhanced, causing the surface to appear discoloured.

**Drying Time ...** Product dries quickly. Drying times may be extended depending on application rate, temperature, humidity, and project conditions. Restrict foot traffic for at least four hours. Twelve hours is preferable.

**Cleanup ...** Clean tools after use with a solvent such as SEALTIGHT SOLVENT, xylene, or toluol.

## PRECAUTIONS

For industrial use only. Apply without dilution or thinning VOC content of the product. **FOR EXTERIOR APPLICATION ONLY.** Surfaces treated with CS-309-30 may become slippery under certain conditions. CS-309-30 should not be applied during high temperature conditions in direct sunlight. These conditions cause rapid evaporation, which does not allow the film to form properly. Under these conditions, the film may peel, bubble and/or turn white (blush).

Do not apply CS-309-30 if the temperature of the concrete is below 4° C (40° F). CS-309-30 may be used on coloured concrete, but mottling may occur. Do not use on dense or non-porous surfaces, i.e. brick, stone, etc.

Concrete containing calcium chloride will remain dark longer when treated with CS-309-30. Concrete floors properly cured with CS-309-30 meet section 8.9 "Adhesion of Tile Cements" of ASTM C 1315. For other specifications, secure the approval of the paint or resilient flooring manufacturer before applying CS-309-30. The specifier and user shall determine the suitability of product for specific applications and assume all responsibility in connection therewith.

CS-309-30 is a membrane-forming sealer. All membrane-forming sealers may darken concrete or magnify imperfections caused by variations in the porosity and/or finishing of the concrete.

## HEALTH AND SAFETY

Prolonged inhalation of vapours in excess of permissible exposure limits may result in symptoms of transient central nervous system depression. Direct contact with the product may result in irritation of the skin and eyes. Product vapours may also cause irritation. CS-309-30 is combustible. Remove ignition sources prior to use. Empty containers may hold combustible vapours. Handle empty containers as combustible liquids. In the event of a spill, contain the product; apply absorbents and place in sealed containers. In the event of a fire, contain all run-off water. Refer to Material Safety Data Sheet for complete health and safety information.

## MASTERFORMAT NUMBER AND TITLE

03 39 23 - Membrane Concrete Curing

## LEED INFORMATION

May help contribute to LEED credits:

- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

**For most current data sheet, further LEED information, and MSDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).**

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