



DATA SHEET NO. 3551-200

CS-309™-20 Clear Curing & Sealing Compound (VOC-Compliant)

DESCRIPTION

CS-309-20 is a clear, non-yellowing formulation of 20% acrylic resins, plus select plasticizers, blended with a quick-evaporating solvent. When applied on freshly placed concrete surfaces, a tough, uniform, moisture-retentive film for simultaneous curing and sealing is formed. CS-309-20 meets the 350 g/L VOC limit for concrete curing compounds.

USES

CS-309-20 is used for curing and sealing newly placed concrete, vertical, or horizontal applications, when a high solids and high water retentive impermeable seal yielding superior curing efficiency is desired.

CS-309-20 is ideal for stamped and textured concrete surfaces and moderate traffic applications.

CS-309-20 is suitable for commercial and industrial applications, such as sidewalks, patios, driveways, multi-level parking decks. It provides a durable finish that resists chemicals, oils, grease, de-icing salts, and abrasion.

CS-309-20 is designed for exterior use only. For interior applications, specify and apply VOCOMP®-20, VOCOMP-25, or VOCOMP-30 curing and sealing compound from W. R. MEADOWS.

FEATURES/BENEFITS

- Breathable film allows moisture in cured concrete to evaporate.
- Retains mix water in concrete to permit complete hydration of the cement paste for hard, dense concrete.
- Helps minimize hair checking, thermal cracking, dusting, and other defects.
- Provides excellent moisture retention properties.
- Can be recoated after thorough cleaning of the existing surface.
- Accepts chlorinated rubber- and oil-based paints and most flooring adhesives.

PACKAGING

3.78 Litre Cans
18.9 Litre Pails
205 Litre Drums

COVERAGE

7.35 - 14.73 m²/L (300 - 600 ft.²/gal.)
Coverage is approximate and depends on the porosity of the surface.

SHELF LIFE

When stored indoors and in original, unopened containers at temperatures between 4 - 32° C, shelf life is a minimum of two years from date of manufacture.

SPECIFICATIONS

- ASTM C309, Type 1, Class 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, such as a Chapin 19069. An 80° fan pattern spray nozzle rated at 1.8 L (1.0 gpm), such as a Chapin 1-5943, provides an excellent even coating. Please contact sprayer manufacturer to ensure suitability of sprayer with product.

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.

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).

Continued over

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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 discolored.

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-309-20 may become slippery under certain conditions. CS-309-20 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-309-20 if the temperature of the concrete is below 4° C (40° F). CS-309-20 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-309-20. Concrete floors properly cured with CS-309-20 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-309-20. The specifier and user shall determine the suitability of product for specific applications and assume all responsibility in connection therewith.

CS-309-20 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

Contains solvent. Use with adequate ventilation and avoid prolonged breathing of vapours that may cause dizziness or suffocation. Avoid contact with skin and/or eyes. See product label and Material Safety Data Sheet for additional information. Read and follow all instructions and precautions. Harmful or fatal if swallowed.

MASTERFORMAT NUMBER AND TITLE

03 39 23 - Membrane Concrete Curing

LEED INFORMATION

May help contribute to LEED credits:

- IEQ Credit 4.2: Low-Emitting Materials – Paints and Coatings
- IEQ Credit 4.3: Low-Emitting Materials – Flooring
- 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.

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