



# ChemMasters®

## Safe-Cure® & Seal 309

Water Based, Economical,  
Curing & Sealing Compound

SPECIALTY CONSTRUCTION PRODUCTS

# P R O D U C T D A T A

### DESCRIPTION

**Safe-Cure & Seal 309** is a water emulsion, styrene acrylic copolymer curing and sealing compound. **Safe-Cure & Seal 309** is low-odor, produces a medium gloss film, cures fresh concrete to ASTM C309 standards, protects concrete surfaces from the intrusion of water borne contaminants and dirt, and is a low Volatile Organic Compound (V.O.C.) water-based product.

### USES

- Effectively cures fresh concrete to ASTM C309 specifications, to achieve the full design strength while minimizing drying shrinkage cracking.
- Interior concrete where a non-flammable, low odor curing compound is desired.
- Exterior concrete curing where an economical water-based, easy clean up, formulation is preferred.
- Seal and dustproof older interior or exterior concrete.

### ADVANTAGES

- Safe-Cure & Seal 309** is very low VOC emission product at <100 g/L VOC.
- Compatible with most resilient floor covering adhesives (conduct a small test patch to ensure compatibility).
- Protects concrete surfaces against deicing chemicals, fertilizers, salts, grease, oil, alkalies, mild acids, and detergents.
- Minimizes spalling due to freeze-thaw cycle exposure, hair line checking, premature cracking, dusting and other common defects that result from improperly cured concrete.
- May be applied over existing water and solvent based sealers (conduct a small test patch to ensure compatibility).
- Seals out most construction dirt and stains. Prevents mortar, plaster, and concrete droppings from bonding to concrete surfaces.

### TECHNICAL DATA

- ASTM C309, Types 1 (Type 1D upon request), Class A and B, *Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete*
- AASHTO M 148, Type 1 (Type 1D upon request), Class A & B
- USDA when cured for incidental food contact

### Packaging / Part Number

5 gal/18.9L	36/pallet	F1210.05
55 gal/ 208 L	4/pallet	F1210.55

### Estimating Guide varies with surface condition

Application	ft <sup>2</sup> /gal (m <sup>2</sup> /L)
New Concrete cure & seal	200 (5)
Older Concrete seal & dust proof	200 to 400 (5 to 10)

### Test Data

V.O.C. Content	<100 g/L
Flash Point close cup	> 212°F (100°C)
Specific Gravity	1.01

### DIRECTIONS

**Mixing:** Do not dilute. **Safe-Cure & Seal 309** is packaged ready to use. Gently stir or agitate prior to use.

#### Surface Preparation:

If using to cure fresh concrete, apply within two hours of bleed water dissipation when application will not mar the surface.

If applying as a sealer for older concrete, clean thoroughly with high-pressure water and allow the concrete to thoroughly dry. Surface must be clean and free from dirt, dust, laitance, oil, grease, paints, curing agents, tilt up bond breakers, or other contaminants that would prevent proper adhesion. Joints to receive joint sealant should be masked or taped off prior to application.

**Application:** Apply uniformly leaving no pinholes or gaps. Do not allow the material to puddle.

**Spray Apply:** Use a low pressure, solvent resistant airless sprayer equipped with a fan nozzle orifice of 0.022" to 0.025" at 0.5 g.p.m. The optimum spray pattern is an 8" to 12" fan. Hold sprayer tip 8" to 12" from the surface of the concrete.



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**Roller Apply:** Use a short nap (1/4" max) roller.

**Application Rate:**

Curing: 300 ft<sup>2</sup>/gal (7 m<sup>2</sup>/L)

Sealer: 350 to 450 ft<sup>2</sup>/gal (8.5 to 11 m<sup>2</sup>/L).

An optional second coat may be applied to a tack free surface at right angles to the first. Coating breathability will be reduced as film thickness increases. Thinner coats have improved aesthetic qualities

**CLEANUP**

Clean equipment with soap and cool water immediately after use. Do not allow material to dry before cleaning.

**STORAGE**

Do not allow to freeze. Store tightly sealed containers in cool, dry area. Shelf life is one year from date of manufacture.

**LIMITATIONS**

- Do not allow to freeze.
- Not for use on surfaces to receive concrete overlays, toppings or penetrating treatments.
- Do not use as a bond breaker for tilt wall construction or on surfaces requiring rubbing.
- Do not apply to joints or channels scheduled to receive elastomeric caulks.
- Do not use if ambient or surface temperature is below 50°F (10°C). For best results, condition material to at least 60°F (16°C) prior to application.
- Use when the temperature is 5°F (3°C) above the dew point.
- Coating may be softened and lifted by gasoline or other strong organic solvents such as xylene, toluene, or lacquer thinner. Solvent, gasoline, hydraulic fluids, peanut oil, and cooking oils must be cleaned quickly to prevent damage.
- Safety Data Sheet and all label precautions must be fully understood prior to using product.
- Quality curing or sealing compounds may darken or highlight the color variations naturally present in concrete.

**PRECAUTIONS:**

**WARNING:** May be harmful if swallowed. Causes mild skin irritation. Causes eye irritation. May be harmful if inhaled. May cause respiratory irritation. Precautionary Statements: Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands and skin thoroughly after handling.

**All label precautions and Safety Data Sheet must be fully understood before using this product.  
Keep out of the reach of children.**

**This Product is Formulated and Labeled for Industrial and Commercial Use Only**

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT PRODUCT & SAFETY DATA SHEETS AND PACKAGE LABEL FOR THIS PRODUCT. We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.