



# ChemMasters®

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## Safe-Cure® & Seal 309

Water-Based, Economical,  
Acrylic Cure & Protect and Primer

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

### DESCRIPTION

**Safe-Cure & Seal 309** is a water-based, acrylic cure and protect for concrete. It produces a clear, low gloss continuous film that effectively cures fresh concrete and protects concrete surfaces from freeze/thaw cycles, deicing chemicals, dirt and other contaminants. **Safe-Cure & Seal 309** may also be an acceptable primer for ChemMasters pigmented acrylic coatings.

### USES

- Effectively cures fresh concrete to ASTM C309 specifications, to achieve the full design strength while minimizing drying shrinkage cracking.
- Interior concrete curing where a non-flammable, low odor curing compound is desired.
- Exterior concrete curing where an economical water-based, easy clean up, formulation is preferred.
- Protect older interior or exterior concrete.
- Primer for pigmented coatings such as **ColorLastic**

### 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, and other contaminants.
- 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).
- Protects from most construction dirt and contaminants. Prevents mortar, plaster, and concrete droppings from bonding to concrete surfaces.

### Packaging / Part Number

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

### 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

### Estimating Guide varies with surface condition

Application	ft <sup>2</sup> /gal (m <sup>2</sup> /L)
Cure Fresh Concrete	200 (5)
Protect Existing Concrete	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.



**ChemMasters® Inc.**

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Nov 2025

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

**Application Rate:**

Curing: 200 ft<sup>2</sup>/gal (5 m<sup>2</sup>/L)

Sealer: 200 to 400 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.
- Do not apply if temperature at the time of application is less than 5°F (2.7°C) above the dew point or if dew, fog, or high humidity is expected within 4 hours of application, or if rain is expected within 8 hours of application.
- 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 protection 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 FOR COMMERCIAL USE ONLY – IT IS NOT A CONSUMER PRODUCT.**

Before using this product read entirely this paragraph and the Manufacturer's Warranty and Limitations of Liability at [Chem-Masters.net/Warranty.php](http://Chem-Masters.net/Warranty.php) (or by using the adjacent QR Code) incorporated herein (collectively the "Terms"). To reject any of the Terms buyer must return the unopened product container at once to the seller from which it was purchased. By opening or using this product buyer accepts without objection or modification all Terms. Subject to applicable law, **MANUFACTURER DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE**, and buyer agrees that in lieu of all other remedies in manufacturer's sole discretion it will either replace defective product or refund the reasonable purchase price, and in no event may you recover from manufacturer any special, incidental or consequential damages even if it was aware of the possibility of such damages.

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