



ChemMasters®

Safe-Cure® & Seal 309

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

SPECIALTY CONSTRUCTION PRODUCTS

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 ² /gal (m ² /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.



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

Application Rate:

Curing: 200 ft²/gal (5 m²/L)

Sealer: 200 to 400 ft²/gal (8.5 to 11 m²/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 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 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.