



ChemMasters®

SPECIALTY CONSTRUCTION PRODUCTS

Spray-Cure™ & Seal 309-A

Low-VOC, Non-Yellowing, Solvent-Based,
Acrylic Copolymer Curing and Sealing
Compound for Concrete

P R O D U C T D A T A

DESCRIPTION

Spray-Cure & Seal 309-A is a non-yellowing styrene-acrylic copolymer concrete curing and sealing compound with added UV absorbers. It is a solvent-based product intended for use outdoors. **Spray-Cure & Seal 309-A** produces a medium gloss, clear, continuous film which effectively cures fresh concrete and protects cured concrete surfaces from intrusion of water, waterborne contaminants and dirt.

USES

- Cures freshly placed concrete to minimize crazing and shrinkage cracks.
- When applied as a sealer, **Spray-Cure & Seal 309-A** develops a clear, durable acrylic film which tenaciously bonds to the concrete surface as protection from water, deicers, salts and other mild chemicals.
- Prevents surface dusting and simplifies the cleaning process by preventing dirt from penetrating the concrete.

ADVANTAGES

- Non-yellowing formula
- Holds moisture in fresh concrete to maximize cement hydration, allowing the concrete to achieve its full design strength and durability.
- Protects concrete against deicing chemicals, fertilizers, salts, grease, oil, alkalies, mild acids and detergents.
- Low viscosity for maximum penetration and adhesion.
- Minimizes spalling due to freeze-thaw cycle exposure, hair line cracking, premature cracking, dusting and other common defects from improperly cured concrete.
- Reduces maintenance costs - surfaces are easier to clean.

Packaging Part Number		
5 gal (18.9 liter)	36 per pallet	F1301.05
55 gal (208 liter)	4 / pallet	F1301.55

TECHNICAL DATA

- ASTM C309, Type 1, Class A & B (upon request 1D & 2) *Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete*
- AASHTO M-148, Type 1, Class A & B (upon request 1D & 2) *Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.*

- USDA approved when cured for incidental food contact
- Complies with National V.O.C. Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59 and lower VOC regulations @ < 350g/L

Estimating Guide coverage rates vary with concrete condition		
Condition	ft ² /gallon	m ² /liter
Curing	300	7
Sealing/dustproof	350 to 450	8.5 to 11
Optional 2nd coat	450 to 600	11 to 15

Physical Properties	
Solids	15% +/- 1
VOC content	< 350 grams/liter
Flash Point	1°F (-17°C)
ASTM C 156 Moisture retention	0.035 g/cm ²
CRD-52-50 Abrasion Test	21.77 gram wt loss

Drying Time @ 70°F (21°C) with 50% R.H.	
Dry to _ condition	Hours
To touch	1
For Light foot traffic	8
For heavy traffic	12
Maximum	168 (7 days)

DIRECTIONS

Mixing: Do not dilute. **Spray-Cure & Seal 309-A** 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.



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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 0.030" to 0.035" at 1 g.p.m. The optimum spray pattern is an 8" to 12" fan. Hold sprayer tip " to 12" from the surface of the concrete.

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

Application Rate:

Curing: 300 ft²/gal (7 m²/L)

Sealer: 450 to 600 ft²/gal (11 to 15 m²/L).

Unsealed concrete may require a second coat

CLEANUP

Tools and equipment should be cleaned with

Polyseal™ Solvent or xylene.

STORAGE

Store tightly closed containers in cool, dry area away from direct sunlight and sources of heat.

Shelf life is two years from date of manufacture. Store locked up.

LIMITATIONS

- For outdoor use only.
- Do not use on decorative concrete.
- Do not use on surfaces to receive concrete overlays or toppings or penetrating treatments.
- Do not use as a bond breaker for tilt wall construction or on surfaces requiring rubbing.
- Do not apply to floors subjected to spills of 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 softening of the membrane.
- Always test for compatibility and adhesion when applied prior to adhesives for resilient carpet and tile.
- Do not apply to joints or channels scheduled to receive elastomeric caulks.
- Do not use if ambient or surface temperature is below 40°F (4°C). For best results, condition material to 50°F (10°C) prior to application.

- Quality curing or sealing compounds and floor treatments may darken or highlight the subtle color variations naturally present in concrete. When the difference in shading is objectionable consult ChemMasters Technical Department prior to concrete placement.

PRECAUTIONS:

Not for indoor use.

Use outdoors only in a well ventilated area.

Danger: Highly flammable liquid. Concentrated vapors may be explosive. Keep away from heat, hot surfaces, sparks, open flames, pilot lights and other ignition sources. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion proof electrical ventilating/lighting equipment. Use non sparking tools. Take action to prevent static discharges. May cause skin, eye and respiratory tract irritation. Do not take internally. All label precautions and SDS must be fully understood before using this product.

For professional use only.

Keep out of reach of children.

See the safety data sheet for hazard information.

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.