



# ChemMasters®

## SPECIALTY CONSTRUCTION PRODUCTS

# Polyseal™ 309-A

Non-Yellowing, Low-VOC, Solvent-Based, Low Viscosity, Acrylic Curing & Sealing Compound For Concrete

## P R O D U C T      D A T A

### DESCRIPTION

ChemMasters' **Polyseal 309-A** is a non-yellowing, low-VOC, low viscosity acrylic co-polymer, membrane forming curing and sealing compound for concrete. It is a solvent-based product, producing a clear, low gloss continuous film which effectively cures fresh concrete and protects concrete surfaces from intrusion of water, waterborne contaminants and dirt.

### USES

- Cure freshly placed broom finish concrete to minimize crazing and shrinkage cracks. **Polyseal 309-A** holds moisture in fresh concrete more effectively than regular curing compounds to promote the full hydration of cement. This process helps to maximize concrete strength and durability.
- Seal, harden, and dustproof existing concrete. When applied as a sealer, **Polyseal 309-A** protects concrete from water, deicing compounds, salts and other mild chemicals. **Polyseal 309-A** develops a clear, durable acrylic film which tenaciously bonds to the concrete surface.

### ADVANTAGES

- Allows concrete surface to develop full design strength by promoting complete hydration of cement
- Low viscosity formula for maximum penetration
- Highly breathable coating is less likely to whiten
- Minimizes spalling due to freeze thaw cycle exposure, hair line checking, premature cracking, dusting, and other common defects that result from improperly cured concrete
- Increases the abrasion resistance of concrete
- Protects concrete from deicers, salts and other mild chemicals
- Compatible with most adhesives for resilient carpet & tile
- Reduces maintenance costs—surfaces are easier to clean

Packaging Part Number		
5 gal (18.9L)	36 per pallet	F1328.05
55 gal (208L)	4 / pallet	F1328.55

### TECHNICAL DATA

#### APPLICABLE STANDARDS

ASTM C309, Type 1, 1D, or 2, Class A & B, Standard Specification for Liquid Membrane Forming Compounds for Curing Concrete

- AASHTO M 148, Type 1, 1D, or 2 Class A & B, Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete
- Complies with the low V.O.C. Emission Standards for OTC, LADCO, Canada and other areas requiring <350 g/L
- USDA approved when cured for incidental contact

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

Physical Properties	
Solids	15% min
V.O.C. content	< 350 g/L
Flash Point	0°F (-18°C)
ASTM C156 Moisture retention	0.035 g/cm <sup>2</sup>

Drying Time @ 70°F (21°C) with 50% R.H.	
Dry to:	Hours
Touch	<1
For Light foot traffic	2-4
For heavy traffic	24

#### DIRECTIONS

Mixing: Do not dilute. **Polyseal 309-A** is packaged ready to use.



## ChemMasters®

An American Owned & Operated Company

300 EDWARDS STREET • MADISON, OHIO 44057-3112 (440) 428-2105 • FAX (440) 428-7091 • ORDERLINE: (800) 486-7866 [www.chemmasters.net](http://www.chemmasters.net)

September 2014

**Surface Preparation:** If using to cure fresh concrete, apply as soon as all bleed water has dissipated. If applying as a sealer for older concrete, clean thoroughly with high-pressure water and allow the concrete to thoroughly dry.

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

**Spray Apply** with a low pressure, solvent resistant, airless, sprayer equipped with a fan nozzle orifice of 0.030 to 0.035" at 1 gpm. The optimum spray pattern is an 8" to 12" fan. Hold sprayer tip 8" to 12" from the surface of the concrete.

**Roller Apply:** Use a short nap (1/4" max) solvent resistant 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 (9 to 11 m<sup>2</sup>/L). Unsealed concrete may require an optional second coat.

**Clean-up:** Clean tools with solvent such as xylene immediately after use.

**CLEANUP**

Clean tools immediately after use with **ChemMasters Coating Repair** or xylene.

**STORAGE**

Store tightly sealed containers in a cool dry area away from direct sunlight and sources of heat or ignition. Shelf life is 2 years from date of manufacture.

**LIMITATIONS**

- For outdoor use only
- **Polyseal 309-A** should not be used on surfaces to receive concrete overlays or toppings. Always test for compatibility and adhesion.
- 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
- Do not apply **Polyseal 309-A** to joints or channels scheduled to receive elastomeric caulks.
- Do not apply in the presence of foodstuffs. USDA approval pertains to fully cured **Polyseal 309-A**.
- Do not use if ambient 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 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: For outdoor use only.**

**Danger.** Highly Flammable Liquid and Vapor. Suspected of Causing Cancer. Toxic to aquatic life with long lasting effects. May be harmful if swallowed. May be harmful if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May be harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.

**Precautionary Statements:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond the container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

All label precautions and Safety Data Sheet must be fully understood before using this product.

**For professional use only.  
Keep out of 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.