



**SPECIALTY CONSTRUCTION PRODUCTS**

# Polyseal™-A

Low VOC, High Performance  
Curing and Sealing Compound  
For Concrete

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

### DESCRIPTION

**Polyseal-A** is a high solids, high performance, concrete curing and sealing compound. This state-of-the-art proprietary formulation completely resists discoloration from ultraviolet light exposure, creating a glossy coating that remains clear throughout its service life. **Polyseal-A** is a low Volatile Organic Compound (V.O.C.) solvent based product.

### USES

- Cure freshly poured concrete where superior curing efficiency and non yellowing performance is required
- Seal, harden, and dustproof existing concrete, particularly architectural or residential concrete exposed to freeze-thaw or UV exposure
- Enhance color and provide uniform appearance of dry shake hardened floors and stamped concrete

### ADVANTAGES

- 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 which result from improperly cured concrete.
- Seals out most construction dirt and stains, and prevents mortar, plaster and concrete droppings from bonding to concrete surfaces
- Tint system available to pigment **Polyseal-A** in a variety of colors. **Tinted Polyseal-A** may be used to cure or seal broom or rough finished concrete and aids in hiding variations in color.

- ASTM C 309, Type 1, Class A & B (upon request 1D & 2) *Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete*
- AASHTO M-148, Type 1 & 1D, Class A & B
- Complies with National V.O.C. Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59 and lower VOC regulations @ < 350g/L
- USDA approved when cured for incidental food contact
- Version to meet U.S. Army Corps of Engineers CRD-C-300 available upon request.

### 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	25% min
VOC content	< 350 grams/liter
Flash Point	1°F (-17°C)
ASTM C 156 Moisture retention	0.035 g/cm <sup>2</sup>
CRD-52-50 Abrasion Test	21.77 gram wt loss

### Packaging Part Number

5 gal (18.9 liter)	36 per pallet	F1320.05
55 gal (208 liter)	4 / pallet	F1320.55
Polyseal tint 0.5 Gal (1.9liter)		F1310

### TECHNICAL DATA

- ASTM C-1315, Type I & II, Class A, *Standard Specification for Liquid Membrane-Forming Compounds for Curing and Sealing Concrete*

### 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)



**ChemMasters®**

An American Owned & Operated Company

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## DIRECTIONS

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

**Tinted Polyseal-A:** Pour 1/2 gal unit (1.9L) of **Polyseal Tint** into a 5 gallon (18.9L) pail of clear **Polyseal-A**. Always mix tinted material until color and texture are uniform before using. Stir occasionally during use to ensure adequate pigment dispersion. (**Tinted Polyseal-A** is best applied with a short nap solvent resistant roller for color uniformity.)

**Application:** **Polyseal-A** dries very quickly, low pressure, spray application is recommended. Apply in coolest part of the day.

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

**Roller Application:** Use short nap solvent resistant roller cover, regularly clean the cover in a solvent such as xylene or **Polyseal Solvent**. If the cover has too much product on it cob-webbing or stringiness may result.

**Curing:** Apply **Polyseal-A** after all bleed water has dissipated and application will not mar surface. The optional second coat is applied at right angles to first coat enhancing moisture retention while providing additional protection from deicing chemicals, oils and greases.

**Formed Concrete Walls:** If walls are not to receive further treatment, apply immediately after stripping forms or following rubbing operations at 450 ft<sup>2</sup>/gal (11m<sup>2</sup>L)

**Older Concrete:** Clean thoroughly with high pressure water removing any dirt, dust, paint, oil, grease, or other contaminants that may prevent adhesion of **Polyseal-A**. Let concrete dry before application.

**Colored Concrete:** When sealing a colored floor or a smooth trowel finished floor with tinted **Polyseal-A**, lightly acid etch the cleaned concrete with muriatic or citric acid. Rinse thoroughly with clean water and allow to dry over night.

**Maintenance:** Surfaces previously sealed with **Polyseal-A** should be cleaned and resealed every 2-3 years, depending on exposure and traffic.

## CLEANUP

Clean tools immediately after use with **Polyseal Solvent™** 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

- **Polyseal-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 in the presence of foodstuffs. USDA approval pertains to fully cured **Polyseal-A**.
- Do not apply **Polyseal-A** to joints or channels scheduled to receive elastomeric caulks.
- Tinted **Polyseal-A** is not a permanent remedy for poorly colored or finished flooring. **Polyseal-A** is a film forming sealer that wears over time.
- **Tinted Polyseal-A** is not intended as a stand alone coating to color interior concrete. If a wear resistant color coating is required consult ChemMasters Technical Service department.
- **Tinted Polyseal-A** can be used on steel trowel surfaces only after acid etching.
- 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.

## CAUTION

Extremely flammable liquid: Keep away from heat, open flames, and other sources of ignition. Use with adequate ventilation. 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.

**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 MATERIAL SAFETY DATA SHEET 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.