



ChemMasters®

SPECIALTY CONSTRUCTION PRODUCTS

Polyseal™

High Performance, Pure Acrylic,
Non-Yellowing, Curing and Sealing
Compound For Concrete

P R O D U C T D A T A

DESCRIPTION

ChemMasters' **Polyseal** 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 membrane that remains clear throughout the service life.

USES

- To cure fresh exterior concrete where superior curing efficiency and non-yellowing performance are required
- Seal, harden, and dustproof existing concrete, particularly architectural or residential concrete exposed to freeze thaw or UV light
- Enhance color and provide uniform appearance of dry shake hardened floors and stamped concrete

ADVANTAGES

- Protects concrete from deicer, fertilizer, salt, grease, oil, alkalis, mild acid, and mild detergent
- Minimizes spalling due to freeze thaw cycle exposure, hair line checking, premature cracking, dusting, and other common defects that result from improperly cured concrete
- Seals out most construction dirt and stains. Prevents mortar, plaster, and concrete droppings from bonding to concrete surfaces
- Tint for **Polyseal** is available in a variety of colors. Tinted **Polyseal** aids to hide color variation while it cures and seals broom or rough finished colored concrete.

- AASHTO M-148, Type 1, Class A & B (upon request 1D & 2) Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.
- Complies with National V.O.C. Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59 and lower VOC regulations @ < 700 g/L
- Meets USDA requirements for incidental food contact when fully cured
- Version to meet U.S. Army Corps of Engineers CRD-C-300 available upon request.

Packaging & Product Number	
5 gal (18.9L)	F1325.05
55 gal (208L)	F1325.55
Polyseal Tint 0.5 gal (1.9L)	F1310

TECHNICAL DATA

- ASTM C1315, Type I Class A, (upon request ID & II) *Standard Specification for Liquid Membrane-Forming Compounds for Curing and Sealing Concrete*
- ASTM C309, Type 1, Class A & B (upon request 1D & 2) *Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete*

Estimating Guide		
Coverage rate 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	11

Physical Properties	
Solids	25% min
V.O.C. Content	<700 g/L
Flash Point °F (°C)	150 (41)
ASTM C 156 Moisture Retention	0.035 g/cm ²

Drying Time @ 70°F (21°C) with 50% R.H.	
Dry to:	Hours
Touch	1
For light foot traffic	8
For heavy traffic	24
Maximum hardness	168 (7 days)



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An American Owned & Operated Company

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DIRECTIONS

Mixing: Do not dilute. **Polyseal** is packaged ready to use. Gently stir or agitate prior to use.

Mixing Tinted Polyseal: Pour ½ gal (1.9L) of **Polyseal Tint** –or- 2 qt of **Translucent Tint** into a 5 gal (18.9L) pail of clear **Polyseal**. Always mix tinted material until color and texture are uniform prior to use. Stir occasionally during use to ensure adequate pigment dispersion.

Surface Preparation: If using to cure fresh concrete, apply within two hours of bleed water dissipation when application will not mar the surface.

Surface Preparation for Tinted Polyseal: Tinted sealers require a minimum substrate profile for adequate adhesion. An acid etch is required when applying tinted **Polyseal** to smooth finished substrates.

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.

Applying Tinted Polyseal: Tinted sealers will highlight uneven application resulting in visible roller marks or spray patterns. Take extra care to apply uniformly.

Spray Apply: Use a low pressure, solvent resistant, airless sprayer equipped with a fan nozzle orifice of 0.030 to 0.035" at 1 gpm or a solvent resistant hand pressurized sprayer with a 'Cats Eye' nozzle (minimum orifice of 0.022 to 0.032"). The optimum spray pattern is an 8 to 12 inch fan. Hold sprayer tip 8 to 12 inches from the surface of the concrete.

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

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 tools immediately after use with **POLYSEAL SOLVENT™** or xylene.

STORAGE

Store tightly sealed containers in cool, dry area away from direct sunlight and sources of heat. Shelf life is three years from date of manufacture. Store locked up.

LIMITATIONS

- **Polyseal** is not for use on interior surfaces.
- 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 joints or channels scheduled to receive elastomeric caulks.
- Do not use if ambient or substrate temperature is below 40°F (4°C). For best results condition material to a minimum of 50°F (10°C) prior to application.
- Do not apply in the presence of foodstuffs. USDA compliance pertains to fully cured coating.
- 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 before using product.
- Protect adjoining glass, metal or painted surfaces that may be etched or damaged by over-spray or splash. Clean with xylene to remove dry material.
- Quality curing or sealing compounds may darken or highlight the color variations naturally pre-sent in concrete.

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.

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.