



ChemMasters®

SPECIALTY CONSTRUCTION PRODUCTS

Polyseal™

25% Solids, Solvent-Based,
Non-Yellowing, High Performance,
Acrylic Cure & Protect For Concrete

P R O D U C T D A T A

DESCRIPTION

ChemMasters' **Polyseal** is a 25% solids, solvent-based, acrylic cure & protect for concrete. It produces a clear, non-yellowing, high gloss continuous film which effectively cures fresh concrete and protects concrete surfaces from freeze/thaw cycles, deicing chemicals, dirt and other contaminants. This state of the art proprietary formulation creates a high gloss and is completely non-yellowing, creating a glossy membrane that remains clear throughout its service life.

USES

- Cure fresh exterior concrete where superior curing efficiency and non-yellowing performance are required.
- Protect existing concrete, particularly architectural or residential concrete exposed to freeze/thaw cycles and deicing chemicals.
- Enhance color and provide uniform appearance of dry shake hardened floors and stamped concrete.

ADVANTAGES

- Protects concrete from deicers, fertilizer, salt, 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.
- Protects against most construction dirt and contaminants. Prevents mortar, plaster, and concrete droppings from bonding to concrete surfaces.
- May be tinted with **Polyseal Tints** or **Translucent Tints**.

- 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.

Estimating Guide Coverage rate vary with concrete condition

Condition	ft ² /gallon	m ² /liter
Cure Fresh Concrete	300	7
Reapply/Protect	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

Packaging & Product Number

5 gal (18.9L)	F1325.05
55 gal (208L)	F1325.55

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

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)

DIRECTIONS

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



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DIRECTIONS CONT'D:

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

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 ft²/gal (7 m²/L)

Reapplication: 350 to 450 ft²/gal (9 to 11 m²/L). Uncoated concrete may require an optional second coat.

CLEANUP

Clean tools immediately after use with **ChemMasters Coating Repair** 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

- For outdoor use only.
- 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: Flammable Liquid and Vapor. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects. **Precautionary Statements:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond 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/vapors/spray. 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.

**Keep out of reach of children.
For professional use only.**

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.