



ChemMasters®

Polyseal

High Performance
Curing and Sealing Compound
For Concrete

SPECIALTY CONSTRUCTION PRODUCTS

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 its' service life.

USES

- On fresh interior or exterior concrete to cure 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 deicers, fertilizers, salts, grease, oil, alkalis, mild acids, and mild detergents.
- 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 system available to pigment **Polyseal** in a variety of colors. **Tinted Polyseal** may be used to cure or seal broom or rough finished colored concrete and aids hiding variations in color.

APPLICABLE STANDARDS

- ASTM C 1315, Type I & II, Class A, Standard Specification for Liquid Membrane Forming Compounds for Curing and Sealing Concrete
- ASTM C 309, Type I, ID, & II, Class A&B, Standard Specification for Liquid Membrane Forming Compounds for Curing Concrete
- AASHTO M 148, Type 1 & 1D, Class A & B, Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete
- Complies with National Volatile Organic Compound Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59
- USDA approved when cured for incidental contact
- U.S. Army Corps of Engineers CRD C 300

Packaging Part Number

4x1 gal (3.7liter)		F1325.04
5 gal (18.9 liter)	36 per pallet	F1325.05
55 gal (208 liter)	4 / pallet	F1325.55
Polyseal tint 0.5 Gal (1.9liter)	Colors 5 gal (18.8 liter)	F1310

TECHNICAL DATA

Estimating Guide coverage rates vary with concrete condition

Condition	ft ² /gallon	m ² /liter
Curing	300	7
Sealing/dustproof	350	8
Optional 2nd coat	450	11

Physical Properties

Solids	25% min
VOC content	< 700 grams/liter
Flash Point	105°F (41°C)
ASTM C 156 Moisture retention	0.035 g/cm ²

Drying Time @ 70°F (21°C) with 50% R.H.

Dry	Hours
To touch	1
For Light foot traffic	8
For heavy traffic	12
Maximum Hardness	168 (7 days)

DIRECTIONS

Mixing: Do not dilute. **Polyseal** is packaged ready to use. Stir or agitate before using.

Mixing Tinted Polyseal: Pour one unit 1/2 gal (1.9L) of **Polyseal Tint** into a 5 gal (18.9L) pail of clear **Polyseal**.



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Always mix tinted material until color and texture are uniform before using; then stir occasionally during use to ensure adequate pigment dispersion.

Application: Apply **Polyseal** 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. Tinted **Polyseal** is best applied with a short napped roller for color uniformity.

Curing: When applying **Polyseal** to fresh concrete apply after all bleed water has dissipated and application will not mar surface. An optional second coat should be applied at right angles to first coat. A second coat will enhance the surface gloss and provide additional protection from deicing chemicals, oil, and grease.

Formed Concrete Walls: If walls are not to receive further treatment, apply immediately after stripping forms or following rubbing operations at 450 ft²/gal (11m²/L)

Older Concrete: Clean thoroughly with detergent and high pressure water removing any dirt, dust, paint, oil, grease, or other contaminants that may prevent adhesion of **Polyseal**.

Colored Concrete: When sealing a colored floor or a smooth trowel finished floor with tinted **Polyseal**, lightly acid etch the cleaned concrete. Muriatic or citric acid opens the concrete pores and allows maximum penetration of the colored **Polyseal**.

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

CLEANUP

Clean tools and equipment used in applying **Polyseal** with **Polyseal Solvent**™ or xylene.

STORAGE

Store tightly closed containers away from direct sunlight and sources of heat or flame. Shelf life is 3 years from date of manufacture when unopened containers are properly stored.

LIMITATIONS

- **Polyseal** should not be used on surfaces to receive concrete overlays or other toppings. Consult ChemMasters' Technical Service Department for compatibility with other surface treatments. 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 floor 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** to joints or channels scheduled to receive elastomeric caulks.
- Do not apply in the presence of foodstuffs. USDA approval pertains to fully cured **Polyseal**.
- Tinted **Polyseal** is not a permanent remedy for poorly colored or finished flooring. **Polyseal** is a film forming sealer that will wear over time.
- Colored **Polyseal** is not intended as a stand alone coating to color concrete. If a more wear resistant color coating is required, consult ChemMasters' Technical Service Department.
- Tinted **Polyseal** can be used on steel trowel surfaces only after acid etching.
- **Polyseal** is not recommended for interior use. If using indoor adequate ventilation is necessary until **Polyseal** has dried completely.
- 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.

CAUTION

Combustible Liquid: Keep away from heat or open flame.

Use with adequate ventilation. May cause skin, eye, or 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.



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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.