



ChemMasters®

Polyseal™

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

Quality • Innovation • Service

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.

- 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

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)

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.*

DIRECTIONS

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



ChemMasters® Inc.

American Made Products—Family Owned Company

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DIRECTIONS CONT'D:

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 present 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 FOR COMMERCIAL USE ONLY – IT IS NOT A CONSUMER PRODUCT.

Before using this product read entirely this paragraph and the Manufacturer's Warranty and Limitations of Liability at Chem-Masters.net/Warranty.php (or by using the adjacent QR Code) incorporated herein (collectively the "Terms"). To reject any of the Terms buyer must return the unopened product container at once to the seller from which it was purchased. By opening or using this product buyer accepts without objection or modification all Terms. Subject to applicable law, **MANUFACTURER DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE**, and buyer agrees that in lieu of all other remedies in manufacturer's sole discretion it will either replace defective product or refund the reasonable purchase price, and in no event may you recover from manufacturer any special, incidental or consequential damages even if it was aware of the possibility of such damages.

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