



# ChemMasters®

## SPECIALTY CONSTRUCTION PRODUCTS

# Polyseal™ WB

25% Solids, High Performance,  
Water-Based, Non-Yellowing,  
Acrylic Cure & Protect for Concrete

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

### DESCRIPTION

**Polyseal WB** is a high performance, water-based, acrylic cure and protect for concrete. It produces a clear, non-yellowing, medium gloss continuous film that remains clear throughout its service life. This state of the art proprietary formulation effectively cures fresh concrete and protects concrete surfaces from freeze/thaw cycles, deicing chemicals, dirt and other contaminants.

### USES

- Interior concrete where a low odor curing compound that meets ASTM C1315 standards is desired.
- Exterior concrete curing where a non-yellowing water-based, easy clean up, formulation is preferred.
- Enhance color and provide a uniform appearance of dry shake hardened floors, integral colored concrete, and acid stained concrete while curing and protecting the surface.
- Protect older interior or exterior concrete.

### ADVANTAGES

- **Polyseal WB** is very low VOC emission product at <100 g/L VOC.
- Protects concrete surfaces against deicing chemicals, fertilizers, salts, 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.
- May be applied over existing water and solvent based products (conduct a small test patch to ensure compatibility).
- Protects against most construction dirt and contaminants. Prevents mortar, plaster, and concrete droppings from bonding to concrete surfaces.
- Tint pack system available in twelve standard colors; special color matching available subject to minimum quantities.
- Tinted **Polyseal WB** may be used to cure or protect rough finished colored concrete and aids in reducing the finishing imperfections or variations in color.

### Packaging Part Number

5 gal (18.9 liter)	36 per pallet	F1200.05
55 gal (208 liter)	4 / pallet	F1200.55

### TECHNICAL DATA

- ASTM C1315, Type I & II, Class A, *Standard Specification For Liquid Membrane-Forming Compounds for Curing and Sealing Concrete*
- ASTM C309, Types 1 or 1D, Class A and B, *Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete*
- AASHTO M 148, Type 1 & 1D, Class A & B
- Meets USDA requirements when fully cured.

### Estimating Guide coverage rates vary with concrete condition

Condition	ft <sup>2</sup> /gallon	m <sup>2</sup> /liter
Cure Fresh Concrete	300	7
Protect Existing Concrete	350	8
Optional 2nd coat	450	11

### Physical Properties

VOC content	< 100 g/l
Flash Point PMCC	>212°F (>100°C)
ASTM C 156 Moisture Loss	0.40 g/cm <sup>2</sup>
CRD-52-50 Abrasion Test	21.77 gram wt loss
ASTM D1653 Moisture vapor transmission	< 0.5 mg/cm <sup>2</sup> per mm in 24 hrs
Solids %	25 +/- 1

### 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	24
Maximum Hardness	168 (7 days)



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An American Owned & Operated Company

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## Directions for Use

Consult Product Data Sheet at [www.chemmasters.net](http://www.chemmasters.net) for complete information regarding product performance and usage.

**Mixing:** Do not dilute. **Polyseal WB** is packaged ready to use. Gently stir or agitate prior to use. If using tint packs, add one unit of **Polyseal WB Tint** into 5 gallons of **Polyseal WB** and mix well. Do not dilute.

**Surface Preparation:** If using to cure fresh concrete, apply after final finish is complete and all bleed water has dissipated. If applying as a protectant for older concrete, clean thoroughly with high-pressure water and allow the concrete to thoroughly dry. When applying to smooth trowel finished floors with tinted **Polyseal WB**, an acid wash, thorough rinse and dry-out is required.

**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 g.p.m. 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. Apply a continuous film leaving no pinholes or gaps.

### Application Rate:

Curing: 300 ft<sup>2</sup>/gal (7 m<sup>2</sup>/L)

Reapplication: 350 to 450 ft<sup>2</sup>/gal (8.6 to 11 m<sup>2</sup>/L). Uncoated concrete may require optional second coat.

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

**Colored Concrete:** When applying to a steel trowel finished floor with tinted **Polyseal WB**, lightly acid wash the cleaned concrete and rinse well with potable water. Muriatic or citric acid opens the concrete pores and allows maximum penetration of the colored **Polyseal WB**.

**Maintenance:** Surfaces previously treated with **Polyseal WB** should be cleaned and recoated every 3 to 5 years depending on exposure and traffic.

### Cleanup

Before material dries and hardens, clean tools and equipment with warm water and detergent.

### Storage

Do not allow to freeze. Store tightly sealed containers in cool, dry area. Shelf life is one year from date of manufacture.

## Limitations

- **Polyseal WB** should not be used on surfaces to receive concrete overlays or toppings. Consult ChemMasters for compatibility of other surface treatments. Always test for compatibility, penetration and adhesion.
- Do not use as a bond breaker for tilt wall construction or on surfaces requiring rubbing.
- Do not apply **Polyseal WB** to joints or channels scheduled to receive elastomeric caulks.
- **Polyseal WB Tint** is made for use with water based formulations only. Do not use to tint solvent based versions of **Polyseal**.
- Tinted **Polyseal WB** is not a permanent remedy for poorly colored or finished flooring. **Polyseal WB** is a film forming sealer that will wear over time. Colored **Polyseal WB** is not intended as a stand-alone coating to color a concrete floor. If a more wear resistant color coating is required, consult ChemMasters Technical Service Staff.
- Color uniformity of **Tinted Polyseal WB** will depend upon concrete finish and absorptivity. A small test application is recommended to ensure acceptable single coat appearance. A second coat is not recommended.
- Do not use if ambient or surface temperature is below 50°F (10°C). For best results, condition material to at least 60°F (16°C) prior to application.
- Use when the temperature is 5°F (2.8°C) above the dew point.
- Clear curing and protecting compounds may darken or highlight the subtle color variations naturally present in concrete. When the difference in shading caused by absorptive deviation or finishing techniques is objectionable, consult ChemMasters Technical Staff prior to concrete placement for recommendations.

### Precautions: WARNING:

May be harmful if swallowed. May cause an allergic skin reaction. Causes eye irritation. May be harmful if inhaled. May cause respiratory irritation. **Precautionary Statements:** Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be stored. **Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up. **Disposal:** Dispose of contents/container in accordance with local/regional/national regulations.

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.