ChemMasters®

SPECIALTY CONSTRUCTION PRODUCTS

Polyseal™ WB

High Performance,
Water-Based, Non-Yellowing,
Curing and Sealing Compound

P R O D U C T D A T A

DESCRIPTION

Polyseal WB is a high performance, water-based, non-yellowing, acrylic concrete curing and sealing compound. This state-of-the-art proprietary formulation completely resists discoloration from ultraviolet light exposure, creates a glossy coating that remains clear throughout its life. **Polyseal WB** is a low Volatile Organic Compound (V.O.C.) water based product.

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 sealing the surface.
- Seal and dustproof 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, alkalis, mild acids, and 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.
- May be applied over existing water and solvent based sealers (conduct a small test patch to ensure compatibility).
- Seals out most construction dirt and stains. 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 seal 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 C 1315, Type I & II, Class A, *Standard Specification For Liquid Membrane-Forming Compounds for Curing and Sealing Concrete*
- ASTM C 309, 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

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	
VOC content	< 100 grams/liter
Flash Point PMCC	>212°F (>100°C)
ASTM C 156 Moisture retention	0.042 g/cm^2
CRD-52-50 Abrasion Test	21.77 gram wt loss
ASTM D1653 Moisture vapor transmission	< 0.5 mg/cm^2 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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Mixing: Do not dilute. Clear **Polyseal WB** is packaged ready to use and only requires mild stirring or agitation prior to use.

Mixing Tinted Polyseal WB: Pour 1/2 gal (1.9L) of **Polyseal WB Tint** into a 5 gal (18.9L) pail of clear **Polyseal WB**. Mix until uniform color is achieved. When using previously tinted material, blend well prior to proceeding with application. Stir occasionally during use to insure complete pigment dispersion.

Application: Apply uniformly leaving no pinholes or gaps. Do not allow material to puddle. Use a short nap roller or a low pressure airless sprayer equipped with a fan nozzle. Hold sprayer tip 6 to 8 inches (15 to 20cm) from the surface of the concrete. Apply uniformly leaving no pinholes or gaps. Tinted **Polyseal WB** is best applied with a short napped roller. Color uniformity 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.

Curing: Apply **Polyseal WB** after all bleed water has dissipated and application will not mar surface. The optional second coat should be applied at right angles to first coat enhancing moisture retention while providing additional protection from deicing chemicals, oils, and greases.

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^2gal (11 m^2/L).

In-place Concrete: Clean thoroughly with high pressure water removing any dirt, dust, curing or sealing membranes, paints, oil, grease, or other contaminants that prevent adhesion.

Colored Concrete: When sealing 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 sealed with **Polyseal WB** should be cleaned and resealed 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 sealing 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 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.

Keep Out of the Reach of Children.

Consult the Safety Data Sheet for additional hazard information. Ensure that you are using the most recent technical data sheet at www. chemmasers.net or call ChemMasters technical service at 800.486.7866.

Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite. All label directions and the Safety Data Sheet must be understood before beginning application procedure