



ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

POLYSEAL WB

HIGH PERFORMANCE, WATER-BASED
NON-YELLOWING, HIGH-SOLIDS
CURING AND SEALING COMPOUND

P R O D U C T D A T A

DESCRIPTION

Polyseal WB is a high solids, water-based, non yellowing, acrylic concrete curing and sealing compound. This state-of-the-art proprietary formulation forms a tough acrylic film to effectively cure fresh concrete and protect older concrete. Polyseal WB creates a glossy membrane which remains clear throughout its service life. Polyseal WB can be colored with Polyseal WB Tint in a variety of standard and special colors.

USES

- Interior concrete where a curing compound to meet ASTM C1315 standards is desired, but where the fumes from a solvent based product would be objectionable
- Exterior concrete curing where a non-yellowing formulation is preferred and water-based clean-up is desired
- Enhance the color and provide uniform appearance of dry shake hardened floors and integral colored concrete while it cures and seals the surface
- Seal and dustproof older interior or exterior concrete

ADVANTAGES

- Protects concrete surfaces against deicing chemicals, fertilizers, salts, grease, oil, alkalies, mild acids and detergents.
- Minimizes spalling due to freeze-thaw cycle exposure, hair line checking, premature cracking, dusting and other common defects which result from improperly cured concrete.
- Seals out most construction dirt and stains, and 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 hiding finishing imperfections or variations in color.

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 I or II, Class A and B, *Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete*
- AASHTO M-148, Type 1 & 1D, Class A & B
- Complies with National Volatile Organic Compound Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59
- V.O.C. Content 82 gm/L
- USDA approved, when cured, for incidental contact
- Solids 25% minimum
- Moisture retention (ASTM C-156) 0.035 gms/cm²
- Moisture vapor transmission (ASTM D1653)
< 0.5 mgs/cm² per mm in 24 hours
- Flash point None
- Drying time @70°F (21°C) and 50% relative humidity
 - Hard film 2 hours
 - Light foot traffic 8 hours
 - Maximum hardness 7 days

PACKAGING

Polyseal WB is available in 5 U.S. gallon (18.9 liter) plastic pails, shipped 36 per pallet and 55 U.S. gallon (208 liter) drums, shipped 4 per pallet.

Polyseal WB Tint is packaged in 0.5 U.S. gallon (1.9 liter) cans. One container of tint is enough to color one pail of clear Polyseal WB.



ChemMasters

An American Owned & Operated Company

300 EDWARDS STREET • MADISON, OHIO 44057-3112

(216) 428-2105 • FAX (216) 428-7091 • ORDER LINE: (800) 486-7866

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ESTIMATING GUIDE

Coverage is dependent upon surface texture and porosity

Curing	300 - 400 Ft ² /gal	7-10 M ² /L
Sealing, hardening and dustproofing		
First coat	300 - 400 Ft ² /gal	7-10 M ² /L
Second coat	400 - 600 Ft ² /gal	7-15 M ² /L

DIRECTIONS

MIXING: Do not dilute. Clear Polyseal WB is packaged ready to use and only requires stirring or agitation prior to use.

MIXING TINTED POLYSEAL WB: Pour 1 unit (1/2 gallon) of Polyseal WB Tint into a 5 gallon (18.9 L) 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: Use a short nap roller or a low pressure, solvent resistant airless sprayer equipped with a fan nozzle. Hold sprayer tip 6-8 inches (15-20 cm) from the surface of the concrete. Apply uniformly leaving no pin-holes or gaps. Tinted Polyseal WB is best applied with a short napped roller for color uniformity.

CURING: Apply Polyseal WB after all bleed water has dissipated and application will not mar surface. The optional second coat is 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 Ft²/gal (11 M²/L).

IN-PLACE CONCRETE: Clean thoroughly with detergent and 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 colored floor with tinted Polyseal WB, a light acid wash of the cleaned concrete is required. 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 3-5 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 formulation only. Do not use to tint solvent based version of Polyseal.
- Tinted Polyseal WB is not a permanent remedy for poorly colored or finished flooring. Polyseal WB is a film forming sealer which 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.
- Do not use if ambient or surface temperature is below 40°F (4°C). For best results, condition material to at least 60°F (16°C) prior to application.
- 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.

CAUTION

May cause skin and eye irritation. Do not take internally. Keep away from reach of children.

All label directions and the Material Safety Data Sheet must be understood before beginning application procedure.

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.