



# ChemMasters®

SPECIALTY CONSTRUCTION PRODUCTS

# Polyseal Plus

High Performance, High Solids  
Curing and Sealing  
Compound for Concrete

## P R O D U C T      D A T A

### DESCRIPTION

ChemMasters' **Polyseal Plus** is a 30% 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 the service life.

### USES

- To cure fresh exterior 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

- For applications specifying 30% solids
- Protects concrete from deicer, fertilizer, salt, grease, oil, alkalis, mild acid, and mild detergent
- 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 for **Polyseal Plus** is available in a variety of colors. Tinted **Polyseal Plus** aids to hide color variation while it cures and seals broom or rough finished colored concrete.

- AASHTO M-148, Type 1, Class A & B (upon request 1D & 2) Standard Specification for Liquid Membrane Forming Compounds for Curing Concrete.
- 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-C300 available upon request.

### Estimating Guide Varies on service conditions

|                     | ft <sup>2</sup> /gallon (m <sup>2</sup> /liter) |
|---------------------|-------------------------------------------------|
| Curing              | 300 (7)                                         |
| Sealing/ Dust proof | 350 to 450 (8 to 11)                            |

### Test Data

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Solids %                            | 30 minimum                                 |
| V.O.C. Content                      | <700 g/L                                   |
| Flash Point (PMCC) °F/°C            | 105/40.6                                   |
| Drying time @ 70°F (21°C) at 50% RH | 45 minutes<br>2 hours<br>8 hours<br>7 days |
| Dust Free                           |                                            |
| Hard Film                           |                                            |
| Light foot traffic                  |                                            |
| Maximum hardness                    | 7 days                                     |
| CRD-52-50 Abrasion Test             | 17.42 gram wt loss                         |

### Packaging Product Number

|                  |               |          |
|------------------|---------------|----------|
| 5 gallon (18.9L) | 36/per pallet | F1324.05 |
| 55 gallon (208L) | 4/pallet      | F1324.55 |

### 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

### DIRECTIONS

**MIXING:** Do not dilute. **Polyseal Plus** is packaged ready to use.

**Tinting Polyseal Plus:** Pour one 1/2 gal (1.9L) unit of **Polyseal Tint** into a 5 gallon (18.9L) pail of clear **Polyseal Plus**. Mix until the color is uniform. Stir occasionally during use to disperse pigment.



## ChemMasters®

An American Owned & Operated Company

300 EDWARDS STREET • MADISON, OHIO 44057-3112 (440) 428-2105 • FAX (440) 428-7091 • ORDERLINE: (800) 486-7866 www.chemmasters.net

April 2018

**Application:** Use a short nap roller or a low pressure, solvent resistant sprayer equipped with a fan nozzle with a .030 to .040 orifice tip. Hold sprayer tip 8 to 12" (20 to 30 cm) from the surface of the concrete. Apply uniformly leaving no pinholes or gaps. Tinted Polyseal Plus is best applied with a short napped roller for color uniformity.

**Curing:** Apply **Polyseal Plus** 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 more gloss and additional protection from deicing chemicals, oils and greases. When curing stamped concrete, remove at least 95% of all release agents prior to application of **Polyseal Plus**.

**Sealing:** Clean thoroughly with detergent and high pressure water removing any dirt, dust, paints, oil, grease or other contaminants that prevent adhesion. Any loose or flaking sealers should also be removed.

**Maintenance:** Surfaces previously sealed with **Polyseal Plus** should be cleaned and resealed every 3 to 4 years, depending on exposure and traffic.

**Colored Concrete:** When sealing a colored floor with tinted **Polyseal Plus**, a light acid wash of the cleaned concrete may be required. Muriatic or citric acid opens the concrete pores and allows maximum penetration of the colored **Polyseal Plus**. An acid wash is required on all smooth trowel finished floors to be treated with tinted **Polyseal Plus**.

## CLEANUP

Clean tools immediately after use with **Polyseal Solvent™** or xylene.

## STORAGE

Store tightly sealed containers in cool, dry area away from direct sunlight and sources of heat. Shelf life is one year from date of manufacture.

## LIMITATIONS

- For outdoor use only
- **Polyseal Plus** should 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 floors 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 in the presence of foodstuffs. USDA approval pertains to fully cured **Polyseal Plus**.
- Do not apply **Polyseal Plus** to joints or channels scheduled to receive elastomeric caulks.
- Tinted **Polyseal Plus** is not a permanent remedy for poorly colored or finished flooring. **Polyseal Plus** is a film forming sealer that wears over time.
- **Tinted Polyseal Plus** is not intended as a long term coating to color interior concrete. If a wear resistant color coating is required consult ChemMasters Technical Service department.
- **Tinted Polyseal Plus** can be used on steel trowel surfaces only after acid etching.
- For the best results, apply when surface and ambient temperature will be at least 50°F (10°C). Temperatures must remain there for at least 3 days after application. Condition material to 50°F (10°C) before use.
- Over application or applying in cool temperatures may result in the formation of bubbles.
- Quality curing or sealing compounds and floor treatments 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.

## Precautions:

**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 the 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.

### 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.