



ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

POLYSEAL PLUS

HIGH PERFORMANCE
CURING AND SEALING COMPOUND
FOR CONCRETE

P R O D U C T D A T A

DESCRIPTION

Polyseal Plus is a premium quality, non yellowing, high gloss curing and sealing compound. Polyseal Plus's high solids formulation has been developed specifically to give long-term protection to all exterior concrete including pigmented or decorative concrete. Polyseal Plus provides extreme abrasion and weathering resistance while developing exceptional gloss and color enhancement. Polyseal Plus eliminates concrete dusting and protects concrete from salt and water penetration. Polyseal Plus generates a durable film that will continue to protect concrete after standard sealers have dissipated. Generally, Polyseal Plus will out last these sealers by at least one season.

USES

- Cure freshly poured concrete where superior curing efficiency, high gloss and non yellowing performance is required
- Seal, harden and dustproof existing concrete, particularly architectural or decorative concrete.
- Enhance color on all decorative concrete including integral or dry-shake colored and stained or dyed concrete.
- 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 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 system available to pigment Polyseal Plus in a variety of colors. Tinted Polyseal Plus may be used to cure or seal broom or rough finished colored concrete and aids in hiding finishing imperfections or variations in color.

TECHNICAL DATA

ASTM C-1315, Type I, Class A
ASTM C-309, Type I, ID A & B
AASHTO M-148, Type 1 & 1D, Class A & B
USDA approved, when cured, for incidental contact
U.S. Army Corps of Engineers CRD-C-300
Solids 30% minimum
V.O.C. content <640 gm/L
Flash point over 105°F (40.6°C)
Drying time@70°F (21°C) and 50% RH
Dust free 45 minutes
Hard film 2 hours
Light foot traffic 8 hours
Maximum hardness 7 days
Abrasion Test (CRD-52-50) 17.42 gms wt loss

PACKAGING

Polyseal Plus is available in 5 U.S. gallon (18.9 liter) metal pails and 55 U.S. gallon (208 liter) drums.

ESTIMATING GUIDE

Coverage is dependent upon surface texture and porosity

	Ft. ² /gal	M ² /L
Curing	300	7
Sealing/Dustproofing	350	8
Optional second coat	450	11

DIRECTIONS

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

TINTING POLYSEAL PLUS: Pour 1 unit (1/2 ga. (1.9 L)) of Polyseal Tint into a 5 gallon (18.9L) pail of clear Polyseal Plus. Mix until uniform color is achieved. Stir occasionally during use to insure complete pigment dispersion.



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APPLICATION: Use a short nap roller or a low pressure, solvent resistant sprayer equipped with a fan nozzle with a .030-.040 orifice tip. Hold sprayer tip 6-8 inches (15-20 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 3-4 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 trowelled 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

- Polyseal Plus should not be used on surfaces to receive concrete overlays or toppings. Always test for compatibility and adhesion.
- Strong organic solvents, xylene, toluene, lacquer thinner, will lift Polyseal Plus film. Gasoline, hydraulic fluids, peanut oil and cooking oils soften and lift Polyseal Plus if spills are not removed quickly.
- 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 which will wear over time. If a more wear resistant color coating is required, consult ChemMasters technical service staff.
- Tinted Polyseal Plus is not intended for use on steel trowelled surfaces.
- Do not use if ambient or surface temperature is below 40°F (4°C). For best results, condition material to 50°F (10°C) prior to application.
- Quality curing or sealing compounds and floor treatments will 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

COMBUSTIBLE LIQUID: Keep away from heat or open flames. Use with adequate ventilation. May cause skin, eye and respiratory tract irritation. Do not take internally.

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.