



ChemMasters®

Polyseal™ EZ Shield

Bubble Resistant, Non-Yellowing,
Low VOC, Solvent Based, Acrylic
Curing and Sealing Compound
with Penetrating Silane Sealer

SPECIALTY CONSTRUCTION PRODUCTS

P R O D U C T D A T A

DESCRIPTION

Polyseal EZ Shield is a low-VOC hybridized film forming concrete curing and sealing compound with long lasting penetrating silane sealer formulated to have unique bubble resistant qualities in high temperature applications. **Polyseal EZ Shield** features enhanced cosmetic characteristics with superior freeze/thaw protection for use on decorative concrete. **Polyseal EZ Shield** is non-yellowing and creates a glossy finish that remains clear throughout its service life.

USES

- Cure or seal decorative concrete where superior curing efficiency, non-yellowing, bubble resistance and freeze/thaw protection is required.
- Seal, harden, and dustproof existing concrete, particularly architectural or residential concrete exposed to freeze-thaw or UV.
- Enhance color and provide uniform appearance of dry shake hardened floors and stamped concrete.

ADVANTAGES

- Formulated with long lasting penetrating silane to protect from damage caused by freeze/thaw cycles & deicing chemicals
- Maximum resistance to bubble formation in high temperatures.
- Protects concrete surfaces against 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.
- Increased penetration and adhesion

Packaging Part Number		
5 gal (18.9 liter)	36 per pallet	F1321.05
55 gal (208 liter)	4 / pallet	F1321.55
Polyseal tint 0.5 Gal (1.9liter)	5 gal (18.8 liter)	F1310

TECHNICAL DATA

- ASTM C309, Type 1, Class A & B, (upon request 1D & 2) *Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete*
- AASHTO M-148, Type 1 & 1D, Class A & B (upon request 1D & 2)
- Complies with National V.O.C. Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59 and lower VOC regulations @ < 350g/L
- USDA approved when cured for incidental food contact
- CSI Format

Estimating Guide coverage rates vary with concrete condition		
Condition	ft ² /gallon	m ² /liter
Curing	300 to 400	7 to 10
Sealing/dustproof	300 to 400	7 to 10
Optional 2nd coat	300 to 600	7 to 15

Note: Increased absorptivity of **Polyseal EZ Shield** may require a second coat on porous substrates.

Physical Properties	
VOC content	< 350 grams/liter
Flash Point closed cup	1°F (-17°C)
ASTM C 156 Moisture retention	0.042 g/cm ²
CRD-52-50 Abrasion Test	21.77 gram wt loss

Drying Time @ 70°F (21°C) with 50% R.H.	
Dry to _ condition	Hours
To touch	0.5
For Light foot traffic	8
For heavy traffic	12
Maximum	168 (7 days)



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Directions for Use

Consult Product Data Sheet at www.chemmasters.net for complete information regarding product performance and usage.

Mixing: Do not dilute. Clear **Polyseal EZ Shield** is packaged ready to use.

Tinted Polyseal EZ Shield: Pour 1/2 gal unit (1.9 L) of **Polyseal Tint** into a 5 gallon (18.9 L) pail of clear **Polyseal EZ Shield**. Always mix tinted material until color and texture are uniform. Stir occasionally during use to ensure adequate pigment dispersion. (**Tinted Polyseal EZ Shield** is best applied with a short nap solvent resistant roller for color uniformity.)

Surface Preparation: If using to cure fresh concrete, apply as soon as all bleed water has dissipated. If applying as a sealer for older concrete, clean thoroughly with high-pressure water and allow the concrete to thoroughly dry.

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 gpm. 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.

Application Rate:

Curing: 300 ft²/gal (7 m²/L)

Sealer: 350 to 450 ft²/gal (9 to 11 m²/L). Unsealed concrete may require an optional second coat.

Clean-up: Clean tools with solvent such as xylene immediately after use.

CLEANUP

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

STORAGE

Store tightly sealed containers in a cool dry area away from direct sunlight and sources of heat or ignition. Shelf life is 2 years from date of manufacture.

LIMITATIONS

- For outdoor use only.
- **Polyseal EZ Shield** 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 EZ Shield**.
- Do not apply **Polyseal EZ Shield** to joints or channels scheduled to receive elastomeric caulks.
- Tinted **Polyseal EZ Shield** is not a permanent remedy for poorly colored or finished flooring. **Polyseal EZ Shield** is a film forming sealer that wears over time.
- **Tinted Polyseal EZ Shield** 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 EZ Shield** 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: For outdoor use only.

Danger. Highly Flammable Liquid and Vapor. Suspected of Causing Cancer. Toxic to aquatic life with long lasting effects. May be harmful if swallowed. May be harmful if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May be harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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/vapours/spray. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

All label precautions and Safety Data Sheet must be fully understood before using this product.

Keep out of reach of children.

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.