



ChemMasters®

Polyseal™ LS-A

Low Sheen, Low Solids, Low Viscosity, Low VOC
Non-Yellowing Curing & Sealing
Compound for Concrete

SPECIALTY CONSTRUCTION PRODUCTS

P R O D U C T D A T A

DESCRIPTION

Polyseal LS-A is a low sheen, low solids, low viscosity concrete curing and sealing compound. This state-of-the-art proprietary formulation completely resists discoloration from ultraviolet light exposure, creating a low sheen coating with maximum penetration and adhesion that remains clear throughout its service life. **Polyseal LS-A** is less than 350 g/L Volatile Organic Compounds (VOC).

USES

- Cure freshly poured concrete where non-yellowing matte or satin finish is required
- Seal, harden, and dustproof existing concrete, particularly architectural or residential concrete exposed to freeze-thaw or UV exposure
- Enhance color and provide uniform appearance of dry shake hardened floors and stamped concrete

ADVANTAGES

- Protects concrete surfaces against deicing chemicals, fertilizers, salts, grease, oil, alkalies, mild acids and detergents.
- Excellent color development with a natural appearing satin gloss finish
- Low viscosity for maximum penetration and adhesion
- Minimizes spalling due to freeze-thaw cycle exposure, hair line checking, premature cracking, dusting and other common defects from improperly cured concrete.
- Seals out most construction dirt and stains, and prevents mortar, plaster and concrete droppings from bonding to concrete surfaces

| Packaging Part Number | | |
|-----------------------|---------------|----------|
| 5 gal (18.9 liter) | 36 per pallet | F1328.05 |
| 55 gal (208 liter) | 4 / pallet | F1328.55 |

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, 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 @ < 350g/L

- USDA approved when cured for incidental food contact
- Version to meet U.S. Army Corps of Engineers CRD-C-300 available upon request.

| Estimating Guide coverage rates vary with concrete condition | | |
|---|-------------------------|-----------------------|
| Condition | ft ² /gallon | m ² /liter |
| Curing | 300 | 7 |
| Sealing/dustproof | 350 to 450 | 8.5 to 11 |
| Optional 2nd coat | 450 to 600 | 11 to 15 |

| Physical Properties | |
|----------------------------------|-------------------------|
| Solids | 15% min |
| VOC content | < 350 grams/liter |
| Flash Point | 1°F (-17°C) |
| ASTM C 156 Moisture retention | 0.035 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 | 1 |
| For Light foot traffic | 8 |
| For heavy traffic | 12 |
| Maximum | 168 (7 days) |

DIRECTIONS

Mixing: Do not dilute. **Polyseal LS-A** is packaged ready to use. Gently stir or agitate prior to use.

Application: **Polyseal LS-A** dries very quickly. Low pressure, spray application is recommended. Apply in coolest part of the day. Apply uniformly leaving no pinholes or gaps. Do not allow material to puddle.



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Spray Application: Apply **Polyseal LS-A** 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 Application: Use short nap solvent resistant roller cover, regularly clean the cover in a solvent such as xylene or **Polyseal Solvent**. If the cover has too much product on it cob-webbing or stringiness may result.

Curing: Apply **Polyseal LS-A** 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 following rubbing operations at 450 ft²/gal (11m²L)

Older Concrete: Clean thoroughly with high pressure water removing any dirt, dust, paint, oil, grease, or other contaminants that may prevent adhesion of **Polyseal LS-A**. Let concrete dry before application.

Colored Concrete: When sealing a colored floor or a smooth trowel finished floor **Polyseal LS-A**, lightly acid etch the cleaned concrete with muriatic or citric acid. Rinse thoroughly with clean water and allow to dry overnight.

Maintenance: Surfaces previously sealed with **Polyseal LS-A** should be cleaned and resealed every 2 or 3 years, depending on exposure and traffic.

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

- **Polyseal LS-A** 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 that require 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 LS-A**
- Do not apply **Polyseal LS-A** to joints or channels scheduled to receive elastomeric caulks.

- 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 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:

Not for indoor use.

Use outdoors only in a well ventilated area.

Danger: Highly flammable liquid. Concentrated vapors may be explosive. Keep away from heat, hot surfaces, sparks, open flames, pilot lights and other ignition sources. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion proof electrical ventilating/lighting equipment. Use non sparking tools. Take action to prevent static discharges. May cause skin, eye and respiratory tract irritation. Do not take internally. All label precautions and SDS must be fully understood before using this product.

For professional use only.

Keep out of reach of children.

See the safety data sheet for hazard information.

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.