



ChemMasters®

Crystal Clear

Highest Gloss, Longest Lasting,
Sealer & Curing Compound
for Concrete

SPECIALTY CONSTRUCTION PRODUCTS

P R O D U C T D A T A

DESCRIPTION

Crystal Clear is a state of the art proprietary formulation which creates the highest gloss possible on concrete. This premium quality, super high gloss, non yellowing, curing and sealing compound coats concrete with a chemically bonded siliconized acrylic film that deepens the color and enhances the look of pigmented or decorative concrete. **Crystal Clear** completely resists discoloration from ultraviolet light exposure and keeps its high gloss finish much longer than standard concrete sealers. **Crystal Clear** will retard efflorescence while resisting oil, grease and food stains. **Crystal Clear** eliminates concrete dusting, while protecting concrete against salt and water penetration.

USES

- Cure freshly poured exterior plain, colored, stamped or exposed aggregate concrete to ASTM C309 where superior curing efficiency is required.
- Seal, harden, and dustproof existing concrete particularly architectural or residential concrete exposed to freeze-thaw or ultra violet light.
- Enhance the color and gloss of pigmented or stamped concrete.

ADVANTAGES

- **Crystal Clear** is much tougher than traditional acrylic sealers. The high gloss created by **Crystal Clear** lasts up to 70% longer.
- **Crystal Clear** completely resists discoloration from ultraviolet light exposure.
- **Crystal Clear** cures concrete to ASTM C1315 standards to minimize cracking and increase the strength of concrete.
- Protects surfaces against deicing chemicals, fertilizers, salts, grease, oil, alkalies, mild acids and detergents.

- 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 Volatile Organic Compound (V.O.C.) Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59 and lower V.O.C. regulations @ < 700 g/L
- Meets USDA requirements for incidental food contact when fully cured
- Version to meet U.S. Army Corps of Engineers CRD-C-300 available upon request.

Gloss Retention 1,000 hours QUV Exposure All panels begin with Gloss Rating = 95

| Product | Gloss Rating E.O.T. | % of Initial |
|------------------------|---------------------|--------------|
| Crystal Clear | 89.8 | 95 |
| Moisture Cure Urethane | 79.1 | 83 |
| Pure Acrylic | 73.6 | 77 |
| Styrene Acrylic | 55.4 | 58 |

Yellowing Index 1,000 QUV Exposure, Simulates approximately 10 yrs of Florida Sunlight. Visible yellowing begins at 3.0 Index

| Product | Yellowing E.O.T. |
|-----------------------------|------------------|
| Initial Rating All Products | 0 |
| Crystal Clear | 0 |
| Moisture Cure Urethane | 3.0 |
| Pure Acrylic | 4.77 |
| Styrene Acrylic | 9.48 |

Packaging Product Number

| | | |
|---------------|---------------|----------|
| 5 gal (18.9L) | 36 per pallet | F1335.05 |
| 55 gal (208L) | 4 per pallet | F1335.55 |

TECHNICAL DATA

- ASTM C1315, Type I, Class A, (upon request ID & II) *Standard Specification for Liquid Membrane-Forming Compounds for Curing and Sealing Concrete*



ChemMasters®

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Physical Properties

| | |
|--|------------------------------|
| ASTM C156 Moisture Retention | 0.035 g/cm ² |
| PMCC Flash point °F (°C) | 100 (38) |
| V.O.C. Content | <700 g/L |
| Drying Time @ 70°F (21°C) Tack Free Light foot traffic Maximum hardness | 2 hours 8 hours 7 days |

Estimating Guide

Coverage rates vary with concrete condition

| | ft ² /gallon | m ² /liter |
|-------------------|-------------------------|-----------------------|
| Curing | 300 | 7 |
| Sealing/dustproof | 350 | 8 |
| Optional 2nd Coat | 450 | 11 |

DIRECTIONS

Mixing: Do not dilute. **CRYSTAL CLEAR** is packaged ready to use. Gently stir or agitate prior to use.

Surface Preparation: If using to cure fresh concrete, apply when application will not mar the surface within two hours of bleed water dissipation.

If applying as a sealer for older concrete, clean thoroughly with high-pressure water and allow the concrete to thoroughly dry. Surface must be clean and free from dirt, dust, laitance, oil, grease, paints, curing agents, tilt up bond breakers, or other contaminants that would prevent proper adhesion. Joints to receive joint sealant should be masked or taped off prior to application.

Application: Apply uniformly leaving no pinholes or gaps. Do not allow the material to puddle.

Spray Apply: Use a low pressure, solvent resistant, airless sprayer equipped with a fan nozzle or solvent resistant hand pressurized sprayer with a 'Cats Eye' nozzle with an orifice of 0.030 to 0.035" at 1 g.p.m. The optimum spray pattern is an 8 to 12 inch fan. Hold sprayer tip 8 to 12 inches from the surface of the concrete.

Roller Apply: Use a short nap (1/4" max) solvent resistant roller.

An optional second coat may be applied to a tack free surface at right angles to the first. Coating breathability will be reduced as film thickness increases. Thinner coats have improved aesthetic qualities.

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 three years from date of manufacture. Store locked up.

LIMITATIONS

- **Crystal Clear** is not for use on interior surfaces.
- Do not use 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 joints or channels scheduled to receive elastomeric caulks.
- Do not use if ambient or substrate temperature is below 40°F (4°C). For best results condition material to a minimum of 50°F (10°C) prior to application.
- Do not apply in the presence of foodstuffs. USDA compliance pertains to fully cured coating.
- Coating may be softened and lifted by 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 damage.
- Safety Data Sheet and all label precautions must be fully understood before using product.
- Quality curing or sealing compounds may darken or highlight the color variations naturally pre-sent in concrete.

PRECAUTIONS: Not for indoor use.

Use outdoors only in a well ventilated area.

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 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.

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 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.