



ChemMasters®

SPECIALTY CONSTRUCTION PRODUCTS

Crystal Clear

High Solids, Solvent-Based,
Non-Yellowing, Highest Gloss,
Siliconized Acrylic Cure & Protect
for Concrete

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, solvent-based, super high gloss, non-yellowing, siliconized acrylic compound cures and protects concrete with a film that deepens the color and enhances the look of pigmented or decorative concrete. **Crystal Clear** is completely non-yellowing and keeps its high gloss finish much longer than standard concrete coatings. **Crystal Clear** will retard efflorescence while resisting contamination from oil, grease, food, and landscaping chemicals. **Crystal Clear** improves decorative concrete aesthetics while protecting concrete against damage caused by freeze/thaw cycles and deicing chemicals.

USES

- Cure freshly poured exterior decorative, colored, stamped or exposed aggregate concrete to ASTM C1315 specifications where superior curing efficiency is required.
- Protect existing concrete particularly architectural or residential concrete exposed to freeze-thaw or deicing chemicals.
- Enhance the color and gloss of decorative 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** is completely non-yellowing.
- **Crystal Clear** cures concrete to ASTM C1315 standards to minimize cracking and increase the strength of concrete.
- Protects surfaces against freeze/thaw damage, deicing chemicals, fertilizers, salts, grease, oil, mild acids and other contaminants.

- 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*
- 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

Packaging Product Number		
5 gal (18.9L)	36 per pallet	F1335.05
55 gal (208L)	4 per pallet	F1335.55

TECHNICAL DATA

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



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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
Cure Fresh Concrete	300	7
Protect Existing Concrete	350-450	8 to 11
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 as soon as all bleed water has dissipated. If applying as a protectant 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.

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

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.

DISPOSAL

Dispose of contents/container in accordance with local, regional, and national regulations.

LIMITATIONS

- For outdoor use only.
- 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 present 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.
For professional use only.**

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.