



# ChemMasters®

SPECIALTY CONSTRUCTION PRODUCTS

## SAFE-CURE® CLEAR<sup>DR</sup> IL

Clear, water-based, dissipating resin  
concrete curing compound

### P R O D U C T                      D A T A

#### DESCRIPTION

**Safe-Cure Clear<sup>DR</sup> IL** is a clear, water based resin curing compound for concrete, **Safe-Cure Clear<sup>DR</sup> IL** efficiently cures concrete and then decomposes rapidly when exposed to ultraviolet, sunlight, and abrasion. It is Volatile Organic Compound (V.O.C.) compliant as an alternative to solvent based dissipating resin cures.

#### USES

- Curing exterior, horizontal or vertical concrete surfaces
- Floors schedule to receive subsequent treatments of dustproofers, liquid hardeners, and densifiers or penetrating water repellents
- Slabs designated for polymer coating, such as epoxies or urethanes, paints, sealers, thin set mortars or floor covering adhesives
- Walls where a waterproof or decorative coating will be applied.

#### ADVANTANGES

- Excellent moisture retention for proper curing
- Protects slabs from construction dirt and stains
- Economical and easy to apply with standard equipment
- Milky white during application for gauging proper coverage rate
- Dries to an amber color aiding in assuring complete removal of membrane

#### Packaging Product Number

5 gal (18.9L)	36 per pallet	F1020.05IL
55 gal (208L)	4 per pallet	F1020.55IL

#### TECHNICAL DATA

- Meets ILDOT Type II Specifications for ASTM C309 Type I (Type 1D available upon request), Class B (Material Code 43120)
- ASTM C309, Type 1 or 1D, Class A and B – *Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete*
- AASHTO M-148, Type 1 (1D available upon request), Class A and B
- Complies with National Volatile Organic Compound (V.O.C.) Emission Standards for Architectural Coatings,

Federal EPA Regulation 40 CFR Part 59

- U.S. Army Corps of Engineers Specification CRD C-300 available upon request.
- Fugitive Dye formulation available upon request

#### Test Data

V.O.C.	< 50 g/L
Solids %	18 +/- 2
Water Loss kg/m <sup>2</sup>	<0.27 @72 hours
Flash Point °F (°C)	>200 (93)
Weight lbs/gal (kg/L)	8.2 to 8.4.1 (0.98 to 1.0)
Settling (150 ml Kimax cylinder)	< 5 ml in 2 hrs <25 ml in 24 hrs

#### Estimating Guide

Coverage dependent on surface texture and porosity

Curing	200 (5 m <sup>2</sup> /L)
--------	---------------------------

#### DIRECTIONS

**Application:** Apply **Safe-Cure Clear<sup>DR</sup> IL** after all bleed water has dissipated and application will not mar surface. Apply uniformly leaving no pinholes or gaps. Do not allow material to puddle.

**Mixing:** Do not dilute. Stir or agitate **Safe-Cure Clear<sup>DR</sup> IL** before use.

**Spray Application:** Always use a dedicated sprayer for water-based curing and sealing products. Use a low pressure airless sprayer equipped with a fan nozzle of 0.030 to 0.035" at 1 gallon per minute. The optimum spray pattern is a 8 to 10" (20 to 25 cm) fan. Hold sprayer tip 8 to 12" (20 to 30 cm) from the concrete surface.

**Roller Application:** Use a short napped roller (3/8" or less).  
**Drying Time:** **Safe-Cure Clear<sup>DR</sup> IL** dries in less than 4 hours at 70°F (21°C) at 50% relative humidity. Cooler temperatures or higher relative humidity may slow drying process.



**ChemMasters®**

An American Owned & Operated Company

300 EDWARDS STREET • MADISON, OHIO 44057-3112 (440) 428-2105 • FAX (440) 428-7091 • ORDERLINE: (800) 486-7866 www.chemmasters.net

August 2016

**Clean Up:** Clean tools and equipment immediately after use with warm water and detergent.

#### **REMOVAL**

Concrete should be allowed to cure for a minimum of 28 days. Complete removal of the curing membrane is normally required before application of penetrating or surface treatments, thin set mortar, or floor covering adhesives. Areas exposed to abrasive traffic and sunlight may be cleaned with a low pressure washer, less than 2,000 psi, and a mechanical scrubber fitted with stiff bristle brushes. Particular attention should be given to areas around columns and near walls where shadows or a lack of abrasive traffic have not assisted in breaking down the curing membrane.

For optimum results on walls or floors not subjected to traffic and sunlight, use high pressure water blast, light sand blasting or shotblasting to remove **Safe-Cure Clear<sup>DR</sup> IL**. This insures the pores and capillaries are clean and free of any material that would inhibit bond or penetration of subsequent coatings or treatments.

#### **LIMITATIONS**

- **Safe-Cure Clear<sup>DR</sup> IL** is not recommended for interior use or where appearance is important
- Do not apply if surface or ambient temperature is below 40°F (4°C). Product must be conditioned to 50°F (10°C) prior to application.
- Do not allow product to freeze.
- Do not use **Safe-Cure Clear<sup>DR</sup> IL** as a bond breaker for tilt-up construction.

#### **STORAGE**

Store in tightly closed containers out of direct sunlight between 50 and 100°F (10 and 38°C). Storing in direct sunlight or at high temperatures may cause bacterial growth which can destroy the product. Bacterial growth will cause the product to appear gray in color and create an objectionable odor. Product should not be used if this occurs. Shelf life of properly stored material is one year from date of manufacture.

Make certain that the most current version of the Product Data Sheet and Safety Data Sheet are being used. Go to [www.chemmasters.net](http://www.chemmasters.net) or contact ChemMasters Technical Service at 800-486-7866 to verify the most current version.

Product selection and application are the sole responsibility of the user. ChemMasters can only make technical recommendations and cannot provide jobsite quality control. All label and SDS precautions must be fully understood before use.

#### **PRECAUTIONS:**

**WARNING:** May be harmful if swallowed. Causes eye irritation. May cause an allergic skin reaction.

**Precautionary Statements:** Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands and skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. 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 the 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.