



**SPECIALTY CONSTRUCTION PRODUCTS**

# Safe-Cure<sup>®</sup> 4000

Poly-Alpha-Methyl styrene,  
White Pigmented,  
Concrete Curing Compound

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

### DESCRIPTION

**Safe-Cure 4000** is a water-based, white pigmented poly alpha-methylstyrene emulsion curing compound for freshly placed concrete. When applied to new concrete, **Safe-Cure 4000** forms a film to retain water and promote superior hydration of cement to achieve maximum design strength and durability. Use of **Safe-Cure 4000** will minimize shrinkage cracks while reflecting sunlight to reduce surface temperatures during the curing process.

### USES

- **Safe-Cure 4000** is used to cure exterior concrete including pavement, curbing, sidewalks, parking lots, median barriers and foundations
- Curing compound for mass concrete, dams, bridges, pavements and structures requiring a higher level of curing efficiency

### ADVANTAGES

- Exceeds the requirements of both ASTM C309 and ASTM C1315 specifications
- Superior moisture retention
- Exceptional stability and spraying characteristics - will not clog spray equipment
- White pigment reflects sunlight to reduce surface temperatures and helps gauge coverage and application rate
- Stable emulsion, will not hard pack in container
- Meets the performance specifications of many state Departments of Transportation

### TECHNICAL DATA

- Meets ASTM C309, Type 2, Class B, Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete
- Meets AASHTO M-148, Type 2, Class B
- ASTM C1315 Type II Class B

Test Data	
V.O.C.	< 330 g/L
Solids %	25+/-2
Water Loss kg/m <sup>2</sup>	<0.25 @72 hours
Flash Point °F (°C)	> 125 (51)
Weight lbs/gal (kg/L)	8.6 to 8.8 (1.03 to 1.05)
Light Reflectance	65% minimum
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 4000** 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 4000** before using to disperse pigments and solids uniformly. If using a pump, use an air diaphragm pump to circulate **Safe-Cure 4000**. Do not use a centrifugal pump. Mix only long enough to make the **Safe-Cure 4000** homogenous. Do not over mix as this may cause foaming and may damage the curing compound.

**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

Packaging Product Number		
5 gal (18.9L)	36 per pallet	F1015.05
55 gal (208L)	4 per pallet	F1015.55
275 gal (1040L)		F1015.275`
Bulk tanker up to 5,500 gal (20,790L)		F1015.00



**ChemMasters<sup>®</sup>**

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is a 8 to 12" (20 to 30 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 4000** 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.

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

#### LIMITATIONS

- **Safe-Cure 4000** 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 4000** 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.