

# LITHIUMCURE 2000

## INTERIOR CONCRETE CURING AGENT

SINAK LithiumCure 2000 is a zero VOC Curing Agent, Water-Cure Equivalent Type, used to cure, seal, harden, densify, and dustproof freshly placed interior concrete. LithiumCure 2000 creates an internal membrane deep within the concrete substrate, resulting in improved hydration, elimination of slab curl and improved abrasion resistance. LithiumCure 2000 is recommended for use on interior vertical and horizontal concrete, tilt panels and areas to receive a polish, coating, roofing, or flooring.

LithiumCure 2000 is formulated to exceed the performance requirements for all ASTM C-39 blanket, burlap, and polyethylene water cure specifications while offering same day slab access. LithiumCure 2000 is tested and proven to chemically replicate 28-day water cure results and assures the specified design strengths will be achieved along with improved durability and reduced permeability. LithiumCure 2000 permanently penetrates the concrete substrate and does not form a film or residue on the surface.

LithiumCure 2000 is compatible with tilt panel bond breakers, joint sealants, patching, surface treatments, stains, acids, polish, coatings, flooring & roofing systems. The use of LithiumCure 2000 allows for the installation of subsequent sealers, hardeners, densifiers, or coatings 5 days after concrete placement. SINAK LithiumCure 2000 is available as an ASTM C-309, ASTM C-1315, Type 1, Class A & B cure. LithiumCure 2000 is class 55 non-hazardous, non-toxic, contains no solvents, is listed as UL GREENGUARD Gold Certified, LBC Red List Free, USDA approved for food handling facilities, Super Compliant with SCAQMD and Buy American Act compliant. LithiumCure 2000's stable formula has an infinite shelf life and does not expire.

## FEATURES & BENEFITS

- Replaces Curing Blankets
- Zero VOCs
- Eliminates Slab Curl
- Eliminates Cure Related Cracking
- Buy American Act Compliant
- UV Stable: Will not yellow
- Chloride Ion Protection
- Improves Abrasion Resistance
- Improves Skid Resistance
- Improves Hydration
- Exceeds ASTM C-309 & ASTM C-1315
- Compatible with all Polish Systems
- Compatible with all Flooring, Roofing, Coatings, & Adhesives
- Compatible with 1L Mix Designs
- USDA Approved for Food Handling Facilities

## WHERE TO USE LITHIUMCURE 2000

- Interior Horizontal Substrates
- Vertical Cast in Place Concrete
- Structural & Lightweight Concrete
- Tilt Panels
- Below Grade
- Exposed Aggregate
- Colored Concrete
- Stamped Concrete
- Pre-Cast Panels
- Topping Slabs
- 1L Concrete
- Cold Storage
- Schools
- Medical Facilities
- Data Centers
- Garage Floors
- Warehouse / Distribution
- Storage Facilities
- Areas to Receive a Polish System
- Areas to Receive Flooring & Roofing



## SUSTAINABLE DESIGN REQUIREMENTS

- Zero VOCs
- UL 2818 Gold - GREENGUARD® Gold Certified
- Environmental Product Declaration
- LBC Red List Free Declare Label
- Health Product Declaration
- Listed as Super-Compliant by the South Coast Air Quality Management District (SCAQMD)
- Exceeds the regulatory limits in the SCAQMD Rule 1113
- Meets the requirements to contribute for LEED credit in the following areas: EQ Credit 1.0, 4.1 and 4.3, EQ Credit 10 3.1, MR Credit 5.1 and 5.2

## TESTING

### ASTM C-309/C-1315: TYPE 1 CLASS A & B

- Exceeds water retention of less than 0.40 kg/m<sup>2</sup>

### ASTM C-39 (Compressive Strength)

- Meets or exceeds 28-day water cure

### AASTO T 277-93/ASTM C-1202 (Rapid Chloride Permeability)

- Meets or exceeds 28-day water cure

### BS 1881 (Initial Surface Absorption)

- Meets or exceeds 28-day water cure

### ASTM D-3359-23 (Test Method for Rating Adhesion)

- Passed

## PRECAUTIONS

Do not allow LithiumCure 2000 to come into contact with any glass, metal, or painted surfaces. LithiumCure 2000 left to dry on the surface may result in streaking, or whitening. Immediately wipe affected surfaces with a clean cloth.

## COVERAGE RATES

One-coat coverage rate is 400-450 sq ft per gallon (10-11 sq m per liter) for horizontal surfaces.

Two-coat coverage rate is 400-450 sq ft per gallon (10-11 sq m per liter) for vertical surfaces.

## INSTALLATION

Installation should be continuous. The application of LithiumCure 2000 should begin after the surface is firm enough to tolerate foot traffic without surface bruising or immediately after the early entry saw cutting. Apply a small test area to confirm penetration. If rain should occur at any time during this process, see '*Interrupted Installation*' at the end of this section.

1. Protect objects and areas not to be treated from spillage or overspray.
2. Apply one coat of LithiumCure 2000 uniformly wetting the surface with an airless or tank type sprayer.

**DO NOT** allow LithiumCure 2000 to puddle or flood the surface.

3. Drying time will vary from 10 to 30 minutes depending on temperature and environment.

**NOTE:** "Dry" means dry to the touch.

4. Clean all equipment with warm soapy water.

## VERTICAL CAST-IN-PLACE INSTALLATION

1. Application may begin immediately after forms have been removed.
2. Apply the first coat of LithiumCure 2000 uniformly wetting the surface with an airless or tank-type sprayer. SINAK recommends applying product top to bottom with a maximum 1-2 inch run. **DO NOT** allow material to run down the surface.
3. Verify the first coat has dried to the touch before beginning the second coat.
4. Apply the second coat uniformly wetting the surface.

**NOTE:** Tilt panel bond breakers may be installed as soon as the LithiumCure 2000 treated surface is dry to the touch. Sealers, hardeners, densifiers, polish systems, or coating installation may begin five days after concrete placement on areas treated with LithiumCure 2000. SINAK recommends a field bond test prior to coating, flooring, or roofing installation.

## INTERRUPTED INSTALLATION

If the application should be interrupted by rain, mark the place of interruption and continue the application as soon as weather permits. If the delay exceeds 4 hours contact SINAK for additional information.

## HOT WEATHER INSTALLATION

In hot (above 100°F or 38°C), dry and/or windy conditions apply LithiumCure 2000 shortly after loss (evaporation) surface water. Contact SINAK for additional information.

## COLD WEATHER INSTALLATION

Do not apply below 34°F (1°C). Contact SINAK for additional information.

## STORAGE & HANDLING

LithiumCure 2000 has an infinite shelf life when stored in a cool dry area out of direct sunlight. Product must be kept in tightly secured containers to prevent evaporation and contamination. LithiumCure 2000 **MUST** be protected from freezing. Product that has frozen will not function as intended, and should be discarded.

## AVAILABILITY

LithiumCure 2000 is available in 1-gallon (3.78-liter) jugs, 5-gallon (18.9-liter) pails, 55-gallon (208.2-liter) drums and 275-gallon (1041-liter) totes from selected distributors.

## TECHNICAL ASSISTANCE

Technical assistance is available from the manufacturer (800) 523-3147 [www.SINAK.com](http://www.SINAK.com).

SINAK warrants its products to be free from manufacturing defects and to meet the technical properties on the current product information sheet. To the maximum extent permitted by law, this express warranty and the remedies specified below are exclusive and in lieu of all other warranties and remedies. Any implied warranties including without limitation implied warranties of merchantability and fitness for a particular purpose are excluded. SINAK's liability under this product warranty shall be limited to a refund of purchase price or replacement of the product. SINAK shall have no liability for any loss of use, interruption of business, lost profits or goodwill, or for any special, incidental or consequential damages of any kind arising from the purchase or use of the warranted product, even if SINAK has been advised of the possibility of such loss, interruption or damage. This limited warranty may not be modified by representatives of SINAK, its distributors or dealers. Any claim made under this warranty must be made within one (1) year of purchase and shall be accompanied by any reports or test results that form the basis of the warranty claim. Prior to settlement of a warranty claim, SINAK shall have the right, but not the obligation, to conduct site inspections and perform tests pertaining to the customer's warranted product and its manner of use.