



# LITHIUMCURE 1000™

EXTERIOR CONCRETE CURING AGENT

SINAK LithiumCure 1000™ is a zero VOC Curing Agent, Water-Cure Equivalent Type, used to cure freshly-placed exterior concrete. LithiumCure 1000™ creates an internal membrane deep within the concrete substrate, resulting in improved hydration, elimination of slab curl and improved abrasion resistance. LithiumCure 1000™ is recommended for use on exterior pavements, colored concrete, and potable water applications.

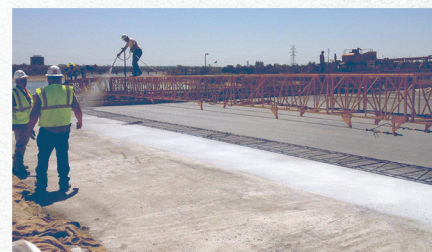


## FEATURES & BENEFITS

- WATER CURE RESULTS WITH SAME DAY SLAB ACCESS
- ELIMINATES SLAB CURL
- NSF 61 POTABLE WATER CERTIFIED
- EXCEEDS ASTM C-309 & ASTM C-1315
- COMPATIBLE WITH ALL TRAFFIC COATINGS
- CONTRIBUTES TO LEED V4 CREDITS

LithiumCure 1000™ is formulated to exceed the performance requirements for all concrete water cure specifications while offering same day slab access. LithiumCure 1000™ is tested and proven to retain higher moisture values than required by ASTM C-309 & ASTM C-1315 and is NSF 61 certified and approved safe for potable water applications.

LithiumCure 1000™ permanently penetrates the concrete substrate and does not leave behind a film or residue. LithiumCure 1000™ allows for the installation of line striping, joint sealants, patching materials, and delineators in as soon as 5 days after concrete placement. LithiumCure 1000 is available as a Type 1, 1-D, and 2, Class A cure. LithiumCure 1000™ is non-toxic, contains no solvents, and is listed as UL® GREENGUARD Gold Certified and super compliant with SCAQMD.



## WHERE TO USE LITHIUMCURE 1000™

- BRIDGE DECKS
- CAST-IN-PLACE
- UHPC
- VERTICAL APPLICATIONS
- PARKING STRUCTURES
- COLORED CONCRETE
- SHOTCRETE





## SUSTAINABLE DESIGN REQUIREMENTS

- Zero VOC's
- UL 2818 Gold - GREENGUARD® Certified.
- 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-39** (Compressive Strength) -Meets or exceeds 28-day water cure
- **ASTM C-309/C-1315: TYPE 1&2, CLASS A** (Moisture Retention) Exceeds water retention of less than 0.40 kg/m<sup>2</sup>
- **ANSI/NSF 61** (Health Effects for Drinking Water System Components) Passed
- **NSF 372** (Lead Content for Drinking Water System Components) Passed
- **AASHTO T 277-93/ASTM C-1202-94** (Rapid Chloride Permeability) -Meets or exceeds 28-day water cure
- **BS 1881 Part 5** (Initial Surface Absorption ml/m<sup>2</sup>/sec) -Meets or exceeds 28-day water cure
- **ARKANSAS DOT / FHWA TEST** 19-40% Less cracking than the 7-day water cure/ C-309 treated surfaces in comparison

\*Independent laboratory reports are available upon request. \*Availability Type 1,1-D, 2 : Class A

## INSTALLATION

Installation should be continuous. LithiumCure 1000™ application should begin after the surface is firm enough to tolerate foot traffic 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 Applications' at the end of this section.

1. Protect objects and areas not to be treated from spillage or overspray.
2. Apply first coat of LithiumCure 1000™ uniformly wetting the surface with an airless or tank-type sprayer. **DO NOT** allow LithiumCure 1000™ to puddle or flood the surface.
3. Immediately after the first coat is dry, apply a second coat. Drying time will vary from 10 to 30 minutes depending on temperature and environment. **NOTE:** "Dry" means dry to the touch.
4. Pay special attention to apply material in joints and on slab edges. Treatment of these areas will eliminate slab curl.
5. Clean all equipment with warm soapy water.

### VERTICAL CAST-IN-PLACE INSTALLATION

For vertical applications DO NOT allow the material to run down the surface. Areas that absorb at a higher rate should be treated with additional product.

### 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 immediately.

### HOT WEATHER INSTALLATION

In hot (above 100°F or 38°C), dry and/or windy conditions apply LithiumCure 1000™ shortly after loss (evaporation) of surface water. Contact SINAK for additional information.

### COLD WEATHER INSTALLATION

Do not apply below 34°F (1°C). Allow ample time between coats for drying. Contact SINAK for additional information.

### PRECAUTIONS

Do not allow LithiumCure 1000™ to come into contact with any glass, metal, or painted surfaces. LithiumCure 1000™ left to dry on the surface may result in streaking, whiting, or staining. Immediately wipe affected surfaces with a clean water-saturated cloth, then wipe dry with a second clean cloth. For questions regarding LithiumCure 1000™ contact SINAK.

### COVERAGE RATES (SUBJECT TO SURFACE FINISH)

Two-coat coverage rate is 200-250 sq ft per gallon (5-6 sq m per liter) for horizontal pavements. Two-coat coverage rate is 150-200 sq ft per gallon (4-5 sq m per liter) for vertical cast-in-place concrete.

### STORAGE & HANDLING

LithiumCure 1000™ has an indefinite shelf life when stored in a cool dry area out of direct sunlight. Must be kept in tightly secured containers to prevent evaporation and contamination. LithiumCure 1000™ MUST be protected from freezing. Product that has frozen will not function as intended, and should be discarded.

### AVAILABILITY

LithiumCure 1000™ is available in 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.

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.

