

LITHIUMCURE 1000™

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

TESTING

- **ASTM C-39** (Compressive Strength) -Meets or exceeds 28-day water cure
- **ASTM C-309/C-1315: CLASS 1, 1-D, 2 CLASS A** (Moisture Retention) Exceeds water retention of less than 0.40 kg/m²
- **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/m²/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

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 Installation' 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.

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.

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, whitening, 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.

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.

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.