

WCE

CONCRETE CURING AGENT

SINAK WCE is a zero VOC, Curing Agent, Water-Cure Equivalent Type, used to cure & seal freshly placed interior and exterior concrete. WCE creates an internal membrane deep within the concrete substrate, resulting in improved hydration, elimination of slab curl and improved abrasion resistance. WCE is recommended for use on interior, exterior, vertical and horizontal substrates.

WCE is formulated to exceed the performance requirements for all ASTM C-309, ASTM C-1315, & ASTM C-39 blanket, burlap, and polyethylene water cure specifications while offering same day slab access. WCE is tested and proven to chemically replicate 14-day water cure results and assures that the specified design strengths will be achieved along with improved durability and reduced permeability. WCE permanently penetrates the concrete substrate and does not form a film or residue on the surface. WCE is compatible with tilt panel bond breakers, joint sealants, patching, surface treatments, stains, acids, polish, coatings, flooring & roofing systems. The use of WCE allows for the installation of subsequent sealers, hardeners, densifiers, coatings, flooring, & roofing 5 days after concrete placement.

WCE is available as an ASTM C-309, ASTM C-1315, Type 1, 1-D, and 2 Class A & B cure. WCE is class 55 non-hazardous, non-toxic, contains no solvents, and is listed as UL GREENGUARD Gold Certified, LBC Red List Free, Super Compliant with SCAQMD and Buy American Act compliant. WCE's stable formula has an infinite shelf life and does not expire. WCE is specifically designed for projects with a goal of retaining the natural concrete appearance while reducing maintenance costs for the life of the structure.

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 Hydration
- Improves Abrasion Resistance
- Improves Skid Resistance
- Exceeds ASTM C-309 & ASTM C-1315
- Compatible with all Paint, Coatings, and Adhesives
- Compatible with all Flooring & Roofing Systems
- Compatible with all Polish Systems
- UL GREENGUARD Gold Certified

WHERE TO USE WCE

- Vertical Cast in Place Concrete
- Structural & Lightweight Concrete
- Horizontal Surfaces
- Shotcrete
- Tilt Panels
- Concrete Pavements
- Parking Structures
- Sound Walls
- Cold Storage
- Elevator Pits
- Pool Decks
- Garage Floors
- Podium Decks
- Topping Slabs
- Below Grade
- Exposed Aggregate
- Colored Concrete
- Stamped Concrete
- Pedestrian Bridges
- Polished Concrete



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, 1-D, 2 CLASS A & B

- Exceeds water retention of less than 0.40 kg/m²

ASTM C-39 (Compressive Strength)

- Meets or exceeds 14-day water cure

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

- Meets or exceeds 14-day water cure

BS 1881 (Initial Surface Absorption)

- Meets or exceeds 14-day water cure

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

- Passed

PRECAUTIONS

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

COVERAGE RATES

Two-coat coverage rate is 200-300 sq ft per gallon (5-7 sq m per liter) for textured surfaces.

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

Two-coat coverage rate is 300-400 sq ft per gallon (7-10 sq m per liter) for vertical surfaces.

INSTALLATION

Installation should be continuous. The application of WCE should begin after the surface is firm enough to tolerate foot traffic without surface bruising or immediately after 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 WCE uniformly wetting the surface with an airless or tank type sprayer.

DO NOT allow WCE to puddle or flood the surface.

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

NOTE: "Dry" means dry to the touch.

3. Immediately after the first coat is dry, apply a second coat.
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 WCE 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 WCE 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 WCE. 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 WCE 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

WCE 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. WCE **MUST** be protected from freezing. Product that has frozen will not function as intended, and should be discarded.

AVAILABILITY

WCE 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.

TECHNICAL ASSISTANCE

Technical assistance is available from the manufacturer (800) 523-3147 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.