



## Concrete Cure Product Information Sheet

### PRODUCT DESCRIPTION:

**THE CURE™** WCE is formulated to exceed the performance requirements of all concrete water-cure specifications. Use of **THE CURE™** WCE assures that the specified design strengths will be achieved along with development of improved surface durability properties.

#### Advantages

- Better than water cure
- Unlimited shelf-life
- Lowers moisture vapor emissions
- Prevents cure related cracking and crazing
- Controls slab-curling
- Not a bond breaker
- All vertical/horizontal concrete
- Saves 7-days in the construction schedule

**THE CURE™** WCE is a ready-to-use, ZERO-VOC concrete cure that outperforms all traditional wet-cure methods such as blankets, plastic sheeting, fogging, steam curing, etc. while eliminating the construction delays caused by water curing. **THE CURE™** WCE is the only concrete curing method proven to prevent cure related cracking and crazing, while minimizing or eliminating early-age differential shrinkage (slab-curling). **THE CURE™** WCE is especially effective in hot, windy and low humidity environments.

**THE CURE™** WCE does not interfere with the bonding of joint sealants, patching, surface coating materials, paints, lane markers or cement wash treatments. Overspray on reinforcement steel does not require removal.

### CURE EFFECTIVENESS:

**THE CURE™** WCE creates secondary hydration within the concrete which results in the formation of additional cement. This additional cement C-S-H formation dramatically densifies the substrate which retains mix-water. As a result, relative humidity levels in the concrete remain near 100% providing optimal hydration for strength development and long-term durability. (see RH Data)

### LONG TERM BENEFITS:

**THE CURE™** WCE provides protection from chloride ion penetration; increases surface wear resistance; provides surface scaling and freeze-thaw protection; and provides protection against oil and chemical staining and damage.

### TECHNICAL INFORMATION:

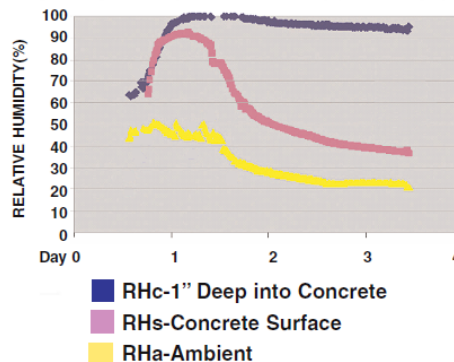
Testing of **THE CURE™** WCE is the most comprehensive in the industry and has been conducted with two primary objectives: (1) to establish and prove superior performance; and (2) to ensure a close and consistent correlation between laboratory and field results.

#### BS 1881 P5 1970

Initial Surface Absorption of Concrete

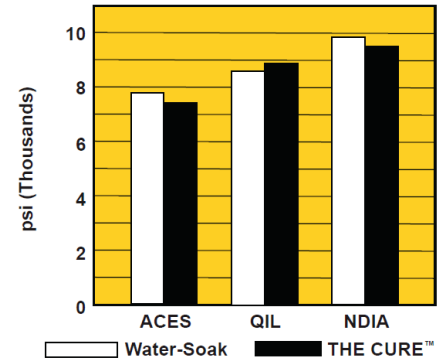
Water Retention		
Exceeds the performance criteria (kg/m <sup>2</sup> )		
Standard	Criteria	THE CURE™
ASTM C 309	0.55	0.34
ASTM C 1315	0.40	0.34
ASTM M148	0.55	0.34

Moisture Retention Effectiveness  
Based on Relative Humidity (RH) Data \*



\*Zachary Department of Civil Engineering,  
Texas A&M University for Texas DOT

### ASTM C-39 28-Day Compressive Strength (as tested by 3 labs)



	Water	WCE	%
ACES	7832	7288	93.1
QIL	8731	8876	101.7
NDIA	9863	9428	95.6

#### BS 1881 Part 5 1970

Initial Surface Absorption of Concrete  
(28 Days)

Sample	Water Soak	THE CURE™
1 mm/m <sup>2</sup> /sec	0.11	0.08
2 mm/m <sup>2</sup> /sec	0.12	0.07
3 mm/m <sup>2</sup> /sec	0.11	0.08
Avg mm/m <sup>2</sup> /sec	0.11	0.08
	100%	72.7%

#### AASHTO T 277-93/ASTM C1202-94

Rapid Chloride Permeability  
(28 Days)

Sample	Water Soak	THE CURE™
Max Current		
1 (amps)	0.1998	0.1226
2 (amps)	0.1994	0.1301
3 (amps)	0.1999	0.1264
Avg (amps)	<b>0.1997</b>	<b>0.1264</b>
	<b>100.0%</b>	<b>63.3%</b>

Total charge passed		
1 (coulombs)	3999	2303
2 (coulombs)	4027	2513
3 (coulombs)	4002	2422
	<b>100.0%</b>	<b>60.5%</b>



## Composition and Materials:

**THE CURE™** WCE is an environmentally friendly, water-based liquid with a proprietary formula in solution. It requires no mixing, diluting or agitating. Color: water clear; Specific Gravity: 1.1; Net Weight per gal: 9.2 lbs; Dry Solids Content (by weight): 11.1%; Flash Point: none; Toxicity: non-toxic; VOC: contains NO volatile organic compounds.

## APPLICATION

### **General Application Instructions:**

The application should begin as soon as the surface can support foot traffic without leaving marks and readily absorbs material and should be a continuous process from start to finish of the project. If for any reason the application is interrupted, mark the place of interruption, and continue at a later time as if no interruption had occurred.

1. Remove all substances that may prevent penetration of the **THE CURE™** WCE.
2. Apply **THE CURE™** WCE in 2 light, even coats, barely wetting the surface, with a backpack or airless sprayer. DO NOT apply **THE CURE™** WCE in heavy coats.  
Immediately after the first coat is dry, apply a second coat. NOTE: "Dry" means dry to the touch and the concrete has returned to original color. Drying time will vary from 10 to 30 minutes depending on temperature/environment.
3. Clean all equipment by rinsing with water.

### **Interrupted Applications:**

If the job should be interrupted by rain, mark the place of interruption. As weather permits, resume the application at the marked place of interruption, and follow all the application steps just as if there was no break in the procedure.

### **Hot Weather Application:**

In hot (above 100°F), dry and/or windy conditions apply **THE CURE™** WCE shortly after loss (evaporation) of surface water. Follow the General Application Instructions.

### **Cold Weather Application:**

In freezing temperatures, or if freezing is possible, call SINAK Corporation.

## Coverage Rates:

For Rough/Porous Surfaces,  
250 - 500 sq ft per gal.  
For Dense/Smooth Surfaces,  
650 - 800 sq ft per gal.

## STORAGE AND HANDLING:

Store in cool dry area out of direct sunlight. Must be kept in tightly secured containers to prevent evaporation and contamination. All SINAK Sealers MUST be protected from freezing. Sealer that has frozen will not function as intended, and should be discarded.

## AVAILABILITY

**THE CURE™** WCE is available in 5-gallon plastic pails, 55-gallon steel drums and 275-gallon biodegradeable totes from selected distributors.

## WARRANTY

SINAK Corporation warrants its products to be of the highest quality. Since application of the product is a crucial factor in obtaining satisfactory results, and is beyond the control of SINAK Corporation, refund of purchase price or replacement of product shall constitute the limit of SINAK Corporation's liability. SINAK Corporation makes no other warranties, expressed or implied. This warranty may not be modified or extended by representatives of SINAK Corporation, its distributors or dealers.

## TECHNICAL ASSISTANCE

Technical assistance is available from the manufacturer, from trained field representatives, and from Certified Applicators.



Form 170102