



S-102™ Concrete Curing



Top: 45,000 square feet finished in less than an hour.

Above: Denver Convention Center, courtesy C. W. Fentress and associates, P. C.; photographer Ron Johnson

SINAK S-102™ curing is designed as a replacement for all forms of traditional wet cure methods such as blankets, ponding, plastic sheeting, etc. and is as convenient to apply as the less effective membrane forming curing compounds conforming to ASTM C-309.

RECOMMENDED FOR:

- ▣ All Decks
- ▣ Beams/Columns
- ▣ Shotcrete
- ▣ Roads/Bridges
- ▣ Runways
- ▣ Vertical Applications
- ▣ Sidewalks
- ▣ Concrete Floors/Slabs
- ▣ Tilt-up

SINAK S-102™ curing is the only method comparable to water curing. **S-102™** was formulated to cure concrete, and provide consistent “controlled” results even in the most adverse environments. Its capabilities are demonstrated by the results of extensive laboratory and field testing.

HOW SINAK S-102™ WORKS

SINAK S-102™ works by penetrating concrete and reacting with the soluble calcium compounds within to form additional calcium silicate, a major factor in sound, healthy concrete. These reactions slow the escaping water, aiding the curing process. This significantly reduces hairline cracking and micro-cracking. The appearance and surface of the treated concrete is unaffected, and there is no surface coating or film that can be worn or weathered away.

THE END RESULT

Concrete cured with **SINAK S-102™** is protected against chloride penetration on traffic-bearing and non-traffic surfaces, surface scaling, and freeze-thaw damage. The treated surface is more resistant to abrasion and dusting. Treated surfaces are compatible with bond-breakers, paints, flooring materials, staining processes, resinous coatings, patching, crack and joint materials.

No other Cure Process can demonstrate these capabilities .

PRODUCT DESCRIPTION

SINAK S-102™ is a 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 or solvents.

COVERAGE

Coverage rate usually ranges between 650 to 800 square feet per gallon for hard troweled surfaces (finished application). Rates vary due to substrate and environmental conditions. See Product Information Sheet for more details.

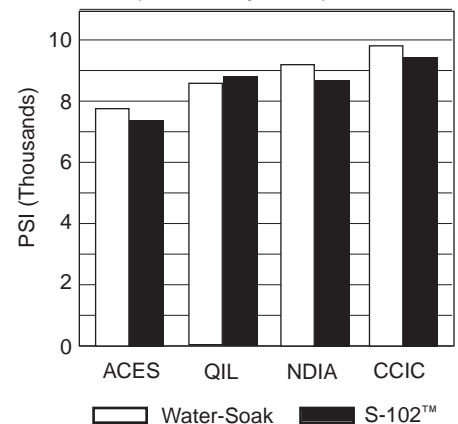
APPLICATION

S-102™ is applied using a low-pressure tank-type or airless sprayer. All treated areas must then be sprayed with a water-coat. See label or Product Information Sheet for detailed instructions.

TESTING

Testing of **SINAK S-102™** 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.

28-Day Compressive Strength
(as tested by 4 labs)





S-102™ Concrete Curing

ASTM C1202

Chloride Ion Penetration (coulombs)
(41 Day - Total charge passed)

Mix	Water soak	S-102™ Cure
Micro-Silica	372	405

BS 1881 : part 5

Initial Surface Absorption ml/m²/sec
(28 Days)

	Water soak	S-102™ Cure
10 min	0.07	0.05
30 min	0.06	0.04
1 hr	0.05	0.03
2 hr	0.03	0.02

Water Retention

Conforms to the performance criteria:

ASTM C 309 Section 6 0.34kg/m²

ASTM C 1315 Section 6.1 0.34kg/m²

Abrasion Resistance (ASTM C 501)

Increase in abrasion resistance after
1,000 cycles as measured by:

Wear Index: 38% Improvement

Depth of Wear: 21% Improvement

Scaling Resistance (ASTM C 672)

After 50 freeze-thaw cycles:

	Untreated Control	S-102™ Treated
Scaling:	Slight to Moderate	None
Weight Loss:	1.5%	None

Freeze-Thaw Resistance (AASHTO T 161/ASTM C 666)

	Untreated Control	S-102™ Treated
Scaling after:		
146 cycles	Slight	None
237 cycles	Slight	Slight
480 cycles	Slight	Slight

Bond Strength of Epoxy Systems (ASTM C 882 - Shear strength)

No failure of epoxy bond to S-102™ treated surfaces. (Concrete failed in compression.)

Pull Tests - Epoxy

No failure of epoxy bond to S-102™ treated flat surfaces. (Concrete failed in tension.)

Bond Strength of Urethane Systems (Shear and tensile)

Withstood 4 to 5 times the stress for the stated movement capability specified by the manufacturer.

We challenge any other Cure Process to match these results!

PRODUCT HANDLING & STORAGE

S-102™ has an indefinite shelf life but must be kept in tightly secured containers to prevent evaporation and contamination.

SINAK S-102™ MUST be protected from freezing. Product that has frozen will not function as intended.

PRODUCT AVAILABILITY

S-102™ is available in 5-gallon pails, 55-gallon steel drums and biodegradable 275-gallon totes through selected, qualified distributors and dealers. Call for the nearest source.

TECHNICAL SUPPORT

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

PRECAUTIONS

This product may damage or stain certain types of glass, metals, and other materials, which should be protected from spillage and overspray.

See product label or Product Information Sheets for complete application instructions and precautions.

LIMITED 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, express or implied, with respect to the products or any service and disclaims all other warranties, including any warranty of merchantability and fitness for a particular purpose. This limited warranty may not be modified by representatives of SINAK Corporation, its distributors or dealers.

Manufactured in the U.S.A.

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