



# S-102™

## CONCRETE WATERPROOFING

SINAK S-102™ is formulated to waterproof, protect, and preserve concrete even in the most adverse environments. Concrete treated with S-102™ is permanently protected against water penetration, de-icing agents, chloride intrusion (salts), efflorescence, and freeze thaw conditions.



## FEATURES & BENEFITS

- PERMANENT CHLORIDE ION PROTECTION
- PERMANENT FREEZE THAW PROTECTION
- PERMANENT SALT GUARD
- IMPROVES ABRASION RESISTANCE
- UL GREENGUARD GOLD CERTIFIED

S-102™ creates a protective barrier that cannot be removed chemically or physically, and there is no surface coating or film that can be worn or weathered away. Concrete treated with S-102™ retains its natural appearance. S-102™ is designed and tested to be used for potable water applications such as pumping stations, water storage facilities, and wildlife enclosures. In addition, S-102™ is approved for use on concrete structures in, or spanning rivers and streams.

S-102™ is compatible with all crack repair, surface patching, and coating materials. Treated concrete is waterproof when subjected to hydrostatic pressures equivalent to more than 220 feet below grade (100 psi).



## WHERE TO USE S-102™

- BRIDGES
- CONCRETE PAVEMENTS
- SIDEWALKS
- DRIVEWAYS
- CISTERNS
- PARKING STRUCTURES

## 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

## INSTALLATION

Installation should be continuous. 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 S-102™ uniformly wetting the surface with an airless or tank-type sprayer. CAUTION: For multiple coat applications the first coat must be completely dry before the application of the second coat.
3. Immediately after the first coats 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. Clean all equipment with warm soapy water.

## COVERAGE RATES

Two coat coverage rate is 150-200 sq ft per gallon (4-5 sq m per liter) for existing concrete.

Two coat coverage 250-300 sq ft per gallon (6-7 sq m per liter) for new concrete in conjunction with SINAK Lithium Cure 1000™ or SINAK CURE3D™

## TESTING

- **ASTM C-1028** (Static Coefficient of Friction)
  - Dry 24% Improvement over untreated sample
  - Wet 36% Improvement over untreated sample

- **ASTM C-944** (Abrasion Resistance)
  - 56.3% Improvement over untreated sample

- **ASTM C-672** (Surface Scaling)  
Non-air entrained concrete after 50 freeze-thaw cycles:

	UNTREATED CONTROL	S-102™
<b>SCALING</b>	Slight to moderate	None
<b>WEIGHT LOSS</b>	1.5%	None

- **AASHTO T-161/ASTM C-666** (Freeze-Thaw Testing)  
(Frost-resistant concrete)

	UNTREATED CONTROL	S-102™
<b>SCALING AFTER</b>	Control	Treated
<b>146 CYCLES</b>	Slight	None
<b>237 CYCLES</b>	Slight	None
<b>480 CYCLES</b>	Slight	None

- **ASTM C-882** (Bond Strength of Urethane Systems)  
(Shear and tensile)

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

- **PULL TESTS - EPOXY**

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

## PRECAUTIONS

Do not allow S-102™ to come into contact with any glass, metal, or painted surfaces. S-102™ 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 S-102™ 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

DO NOT apply S-102™ on surfaces above 100 F (38 C).

## 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

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

## AVAILABILITY

S-102™ 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.