



S-102

Concrete Waterproofing

- ▶ **CONTRIBUTES TO LEED CREDITS**
- ▶ **PERMANENT**

- ▶ **UL GREENGUARD® CERTIFIED**
- ▶ **WATERPROOF**

SINAK S-102™ was formulated to waterproof, protect, and preserve, concrete, even in the most adverse environments. These capabilities are demonstrated by the results of extensive field performance and testing.

HOW THE S-102™ WORKS

SINAK S-102™ works by penetrating into concrete and reacting with the soluble calcium compounds within to form additional calcium silicate, a major factor in sound, healthy concrete. The newly formed, breathable protective barrier cannot be removed chemically or physically, and there is no surface coating or film that can be worn or weathered away. The appearance of treated concrete is unchanged.

THE END RESULT

Concrete treated with **SINAK S-102™** is protected against chloride penetration, surface scaling, and freeze-thaw damage. Efflorescence will be significantly reduced or eliminated. The Treated surface is denser, more resistant to abrasion and dusting and is compatible with crack repair and surface patching/coating materials. Most of all, the treated concrete is **WATERPROOF** when subjected to hydrostatic pressures equivalent to more than 220 feet below grade (100 psi)

No other clear sealer can demonstrate these capabilities

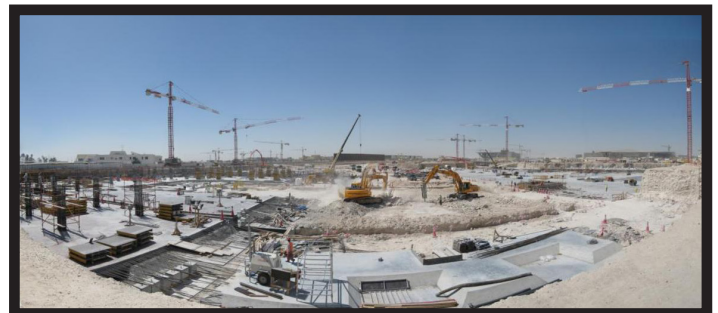
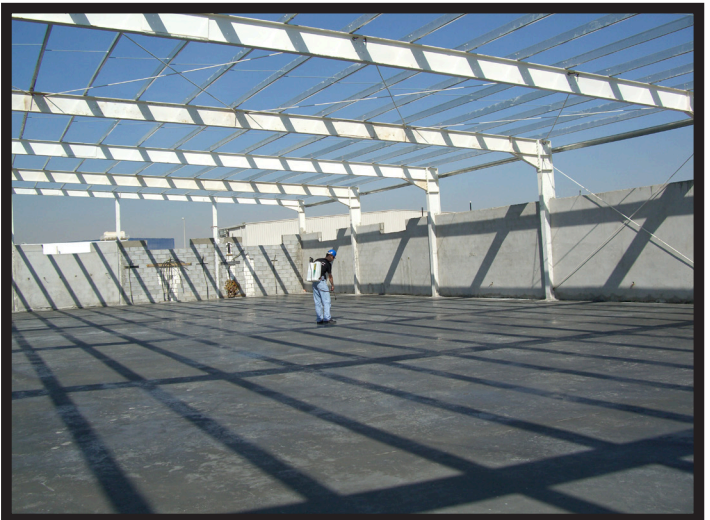
For Use On:

All Concrete Surfaces

- ▶ Horizontal
- ▶ Vertical
- ▶ Precast
- ▶ Cast-in Place
- ▶ Shotcrete

Benefits:

- ▶ Waterproofing
- ▶ Chloride Protection
- ▶ Abrasion Resistance
- ▶ Freeze-Thaw Protection
- ▶ Curing
- ▶ Efflorescence Control
- ▶ Stain Resistance
- ▶ Stabilizing Dusting



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PRODUCT DESCRIPTION

SINAK S-102™ is a water-based liquid, with a proprietary formula in solution, that requires no mixing, diluting or agitating. The sealer is non-toxic and contains NO volatile organic compounds or solvents.

PRODUCT COVERAGE

S-102™ coverage rate is 150-250 sq.ft. per gallon (finished application). Finished application means including all coats of S-102.

Coverage ranges are from project experience. Actual coverage will depend on surface textures and concrete quality.

APPLICATION

Sealers are applied using a low-pressure tank-type or airless sprayer. All treated areas must then be sprayed with light water spray. See label or Product Information Sheet for detailed instructions.

TESTING

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

Hydrostatic Pressure Resistance

Applied Pressure: 100 psi
Duration: 24 Hours
Absorption- Treated: 120 ml
Untreated: 7 ml

Note: Moisture was observed on the sides of the untreated specimen. No moisture was observed on the sides of the treated specimens.

Surface 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

Surface Scaling (ASTM C 672)

Non-air entrained concrete after 50 freeze-thaw cycles:

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

Freeze-Thaw Testing

(AASHTO T 161/ ASTM C 666)

Frost-resistant concrete

Scaling After	Untreated Control	S-102™ Treated
146 Cycles	Slight	None
237 Cycles	Slight	None
480 Cycles	Slight	None

Bond Strength of Epoxy Systems

(ASTM C 882 - Shear strength)

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

Pull Tests - Epoxy

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

Bond Strength of Urethane Systems

(Shear and tensile)

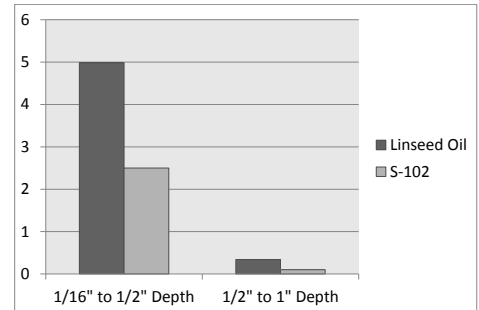
Withstood 4 to 5 times the stress for the stated movement capability specified by the manufacturer.

Chloride Ion Resistance

(AASHTO T 259, based on abraded specimens)

Linseed Oil Control (Abraded Specimens)

lbs. chloride / cu. yd. concrete



WARRANTY

In all cases, SINAK Corporation warrants its products to be of the highest quality; but since application of the product is crucial in obtaining satisfactory results, and is beyond the control of SINAK Corporation, refund of the purchase price or replacement of product shall constitute the limit of SINAK Corporation's liability. SINAK Corporation makes no other warranties expressed or implied.

Extended labor and materials warranties for up to 10 years may be offered at no added cost for applications performed by SINAK Certified Applicators.

Warranty remains in effect even if up to 1/16" of the surface is abraded or worn away after the application. Write or call for details.

PRODUCT HANDLING AND STORAGE

SINAK S-102™ has an indefinite shelf-life but 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.

PRODUCT AVAILABILITY

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

TECHNICAL SUPPORT

Technical assistance is available from the manufacturer and from selected distributors.

PRECAUTIONS

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

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



Form 170801

Manufactured By:

SINAK Corporation

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