



## S-102™ WATERPROOFING



Water Tank; Laverne, California



Bridge, Pennsylvania

### SINAK Sealer S-102™

#### RECOMMENDED FOR:

- ▶ Underground Vaults
- ▶ Tunnels
- ▶ Dams
- ▶ Pools
- ▶ Pre-cast/Tilt-up Concrete Structures
- ▶ Retaining Walls
- ▶ Flumes/Canals
- ▶ Water Tanks
- ▶ Reservoirs
- ▶ Basements
- ▶ Parking Decks
- ▶ Bridge Decks
- ▶ Roads
- ▶ Runways
- ▶ Sidewalks/Curbs/Gutters
- ▶ Exposed Concrete Floor/Slabs

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

#### HOW THE SEALER WORKS

**SINAK Sealer 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 **WATER-PROOF** when subjected to hydrostatic pressures equivalent to more than 220 feet below grade (100 psi).

*No other clear sealer can demonstrate these capabilities.*

#### PRODUCT DESCRIPTION

SINAK Sealers are water-based liquids, with a proprietary formula in solution, that requires no mixing, diluting or agitating. The Sealers are non-toxic and contain NO volatile organic compounds.

#### PRODUCT COVERAGE

**S-102™** Coverage rate is 150-250 sq. ft. per gal. (finished application). Finished application means including all coats of applied **S-102™**.

*Note:* 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; and (2) to ensure a close and consistent correlation between laboratory and field results.





# S-102 WATERPROOFING

## Hydrostatic Pressure Resistance

Applied Pressure: 100 psi  
 Duration: 24 Hours  
 Absorption: Untreated: 120 ml  
 S-102™ Treated: 7 ml

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

## 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 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.)

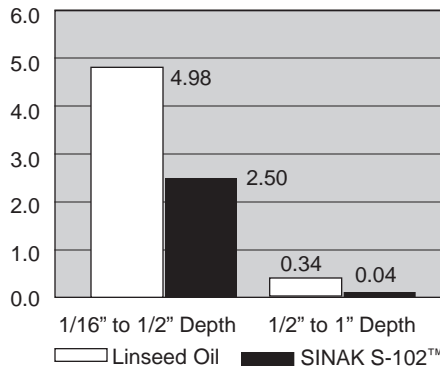
## Bond Strength of Urethane Systems (Shear and tensile)

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



*We challenge any other clear sealer to match these results.*

## 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-inch of the surface is abraded or worn away after application. Write or call for details.

## PRODUCT HANDLING & STORAGE

SINAK Sealers have an indefinite shelf life but must be kept in tightly secured containers to prevent evaporation and contamination.

SINAK Sealers MUST be protected from freezing. Sealer that has frozen will not function as intended.

## PRODUCT AVAILABILITY

SINAK Sealers are available in 5-gallon pails and 55-gallon steel drums, and 275-gallon biodegradable 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 labels or Product Information Sheets for complete application instructions and precautions.

Manufactured in the U.S.A.