



REMR MATERIAL DATA SHEET CM-SE-1.13
 CONCRETE SEALER: SINAK P-103 SEALER

1. NAME

Sinak P-103 Sealer

Excess (puddled) sealer left to dry on the surface will result in a white, scaly residue that may be difficult to remove.

2. MANUFACTURER

Sinak Corp.
 861 Sixth Avenue, Suite 411
 San Diego, CA 92101
 Telephone: 619-231-1771

Product should not be allowed to freeze.

The product is an irritant and contains potassium silicate. Avoid contact with eyes and prolonged contact with skin. In case of contact, flush with plenty of water. For eyes, get immediate medical attention.

3. DESCRIPTION

Potassium-silicate-based liquid with a proprietary wetting agent.

5. MANUFACTURER'S TECHNICAL DATA

4. USES & LIMITATIONS

Uses: Waterproofing, sealing, weatherproofing, paint and coating preparation, salt resistance, and efflorescence control. Also helps control vapor emissions (water vapor transmission) on on-grade concrete slabs to protect floor coverings and coatings from delaminating.

Vapor emissions reduction: Dome test method. Sinak Sealer P-103 has been tested on several projects where vapor emission levels were excessive through on-grade concrete slabs. It has reduced emissions ranging from 30 to 50 percent, with an approximate mean average reduction of 40 percent. These emission reductions were achieved while allowing a safe level of permeability of the treated concrete.

P-103 is formulated for smooth-faced, precast concrete and smooth-stamped concrete. It is also for use on regular, steel-troweled-surface concrete for preparation of floor coatings and coverings.

Resistance to moisture penetration:

Resistance to wind-driven rain, TT-P-0035. Sinak P-103 has been proven resistant to simulated 98 mph wind-driven rain.

Limitations: Not for use on all types of masonry. Always test product for suitability before using. Sinak Sealer P-103 is not designed to seal structural cracks and is intended only for those applications outlined herein.

Product characteristics:

Color: Water clear

Flash point: None

Specific gravity: 1.1

Weight: 9.2 lb/gal

Dry solids content: 11.0%

Toxicity: Nontoxic

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Surface preparation:

Remove all coatings, sealants, dirt, surface oil, excessive efflorescence, standing water, and any material that may prevent penetration of the sealer.

Protect all objects from overspray. This is especially necessary with glass, stainless steel, aluminum, ceramics, glazed tile, and wood.

Using a garden or an airless sprayer, apply sealer in two light, even coats. Do not apply sealer in heavy coats.

Immediately after the first coat is dry to the touch (drying time may vary from 10 to 90 min for each coat depending on the ambient temperature), apply a second coat. Apply only as much sealer as the surface will readily absorb, as this increases penetration. Areas that absorb sealer at a faster rate (dry spots) will require additional coats.

Note: Do not allow sealer to run on vertical applications. If runoff should occur, dampen surface with water and scrub residual sealer into vertical surface with a stiff bristle brush.

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After the second coat of sealer is dry to the touch, spray a light water mist over the entire treated area. Let

surface dry completely. After the first water-mist coat is dry to the touch, apply a second water-mist coat.

Application:

Hot-weather: In hot weather (above 90° F) prepare the surface for sealing by lightly dampening with a water spray to cool the surface before application. Be sure surface is completely dry before applying sealer. It is important to start sealer application immediately after the water has dried. After applying sealer, lightly water mist the treated area between coats. This will prevent the sealer from setting up on the surface. Follow the general application instructions.

Cold-weather: Cold temperatures cause the Sinak Sealer to absorb at a slower rate. Allow sealer time to penetrate completely between applications. Do not apply sealer in temperatures below 40° F or if temperature is expected to drop below 32° F within a 24-hr period. Follow the general application instructions.

Outdoor: Sealer may dry prematurely in breezy or windy conditions. It is advisable to hold the spray nozzle close to the surface to minimize airborne particles. If rain is expected within a 24-hr period, do not apply sealer. If it does rain within a 24-hr period after applying sealer, contact manufacturer for assistance.

Follow the general application instructions.

New concrete: Apply sealer after the concrete has cured for a minimum of 14 days. For optimum results allow concrete to cure for 28 days or longer.

Coverage rates:

<u>Condition of Surface</u>	<u>Coverage sq/ft</u>
Dense and smooth finished colored concrete	150-250
Decorative pre-cast concrete	150-200

These figures are estimates and may vary since the Sinak Sealer formulas are true penetrants and substrate conditions and environmental conditions fluctuate. For additional information, contact the nearest Sinak representative or Sinak Corp. for assistance.

7. CORPS OF ENGINEERS' EVALUATION

Physical and mechanical properties:

Percent solid 14.8%
(ASTM D 1644, Method A):

Percent water absorption
(ambient temperature) (ASTM C 642):

1 day	4.87%
2 days	4.91%
4 days	5.01%
7 days	5.05%

Ratio of percent water absorption for treated to nontreated specimen (2-day submersion): 104%

8. ENVIRONMENTAL CONSIDERATIONS

Reasonable caution should guide the preparation, repair, and cleanup phases of sealant activities involving potentially hazardous and toxic chemical substances. Manufacturer's recommendations to protect occupational health and environmental quality should be carefully followed. Material safety data sheets should be obtained from the manufacturers of

such materials. In cases where the effects of a chemical substance on occupational health or environmental quality are unknown, chemical substances should be treated as potentially hazardous toxic materials.

9. AVAILABILITY & COST

Sinak Concrete Sealers are available from selected dealers and distributors throughout most of the United States. The Sinak Concrete Sealers P-103 and P-105 are available in 5-gal plastic containers, 55-gal steel drums, and bulk tank loads. Costs are available from the dealers and distributors.

10. TECHNICAL SERVICE

Complete technical services are available both directly from the manufacturer and from trained field representatives. Services include analysis and review of drawings, specification assistance, and jobsite review and assessments. The manufacturer and sales representatives are available to work with the contractor through the initial and final stages of applications to ensure proper installation.