



SINAK
SUSTAINABLE BUILDING SOLUTIONS



LITHOHARD™

DENSIFIER, HARDENER & DUSTPROOFER

LithoHard™ is a ready to use, zero VOC permanent penetrating densifier that hardens and dustproofs new and existing concrete. LithoHard™ is designed for use on interior hard steel troweled finished concrete. The environmentally friendly formula eliminates scrubbing, rinsing, and costly disposal of caustic wastewater.



FEATURES AND BENEFITS

- 20-YEAR DUSTPROOF WARRANTY
- NO SCRUBBING REQUIRED FOR INSTALLATION
- INSTALL AS SOON AS 5 DAYS AFTER CONCRETE PLACEMENT
- IMPROVES ABRASION RESISTANCE
- UL GREENGUARD GOLD CERTIFIED
- CONTRIBUTES TO LEED V4 CREDITS

LithoHard™ is a ready to use, zero VOC concrete densifier that outperforms all traditional sodium, lithium, potassium, and magnesium fluosilicate products. The chemistry of LithoHard™ does not require free calcium to react which allows for early application. LithoHard™ is a permanent penetrating densifier that hardens and dustproofs new and existing concrete.

LithoHard™ continues to shine with time and sustained use. LithoHard™ provides increased slip resistance, both wet and dry, and can be used on colored concrete. SINAK warrants that, when properly installed according to manufacturer's written instructions, the concrete substrate will remain hardened and dustproof for more than 20 years.

WHERE TO USE LITHOHARD™

- MEDICAL FACILITIES
- COMMERCIAL
- SCHOOLS
- WAREHOUSE/DISTRIBUTION
- STORAGE FACILITIES
- TILT UP
- DATA STORAGE
- RESTAURANTS
- GOVERNMENT
- BIG BOX

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. Concrete shall be cured with a SINAK Curing Agent, Water-Cure Equivalent Type or seven day water cure. For optimal performance and accelerated project applications, cure with LithiumCure 2000™ and apply LithoHard™ after 5 days. On existing concrete a mock-up is recommended to test for contaminants and film forming membranes.

1. Protect objects and areas not to be treated from spillage or overspray.
2. Apply LithoHard™ in one (1) coat, uniformly wetting the surface with an airless or tank-type sprayer.
3. Drying time will vary from 10 to 30 minutes depending on temperature and environment. NOTE: "Dry" means dry to the touch.
4. Do not allow material to puddle.
5. Clean all equipment with warm soapy water.

COVERAGE RATES (SUBJECT TO SURFACE FINISH)

One-coat coverage rate in conjunction with SINAK LithiumCure 2000™ is 700-800 sq ft per gallon (17-20 sq m per liter).
One-coat coverage rate for use with a seven day water cure is 400-450 sq ft per gallon (10-11 sq m per liter).

PRECAUTIONS

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

HOT WEATHER INSTALLATION

DO NOT apply LithoHard™ on surfaces above 100 F (38 C).

COLD WEATHER INSTALLATION

In cold weather, but not lower than 34 F (1 C) and rising, the application and drying time will be extended. DO NOT apply below 34 F (1 C). If the temperature is expected to drop below 32 F (0 C), cover treated areas with thermal blankets. Contact SINAK for additional information.

STORAGE & HANDLING

LithoHard™ 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. LithoHard™ must be protected from freezing. Product that has frozen will not function as intended and should be discarded.

AVAILABILITY

LithoHard™ 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.

WARRANTY

A 20-year dustproofing warranty is available. Contact SINAK for warranty requirements.

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*)
 - 52% Improvement over untreated sample
- **ASTM C-805** (*Schmidt Hammer Test*)
 - 11% Improvement over untreated sample
- **ASTM D-3359** (*Adhesion*)
 - Treated: No Bond Failure
 - Untreated: Coating and Substrate Failure

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 the date 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.