

# LITHOHARD

## CONCRETE DENSIFIER HARDENER DUSTPROOFING LIQUID FLOOR TREATMENT

SINAK LithoHard is a ready to use, zero VOC permanent penetrating densifier that seals, hardens, and dustproofs new and existing concrete. LithoHard is the latest advancement in environmentally friendly concrete treatment technology that will eliminate dusting and extend the life of new "green" and existing concrete by decades. LithoHard is a clear, spray applied liquid floor treatment designed to increase surface durability and reduce permeability on interior, exterior, vertical, and horizontal concrete substrates. The LithoHard warranty guarantees that treated surfaces will remain water-repellant, dustproof, hardened, skid resistant, and abrasion resistant for 20-years from date of installation.

LithoHard permanently penetrates, seals, hardens, densifies, and dustproofs without brooming, microfiber, or surface agitation. This true single coat spray and walk away formula saves significant time and labor during application and reduced maintenance for the life of the treated surface. LithoHard is UV stable and will not yellow, peel, or degrade over time. LithoHard provides increased stain resistance, slip resistance and is especially effective on colored concrete. The environmentally friendly formula eliminates scrubbing, rinsing, and costly disposal of caustic wastewater. LithoHard can be installed five days after concrete placement and treated surfaces continue to shine with time and sustained use.

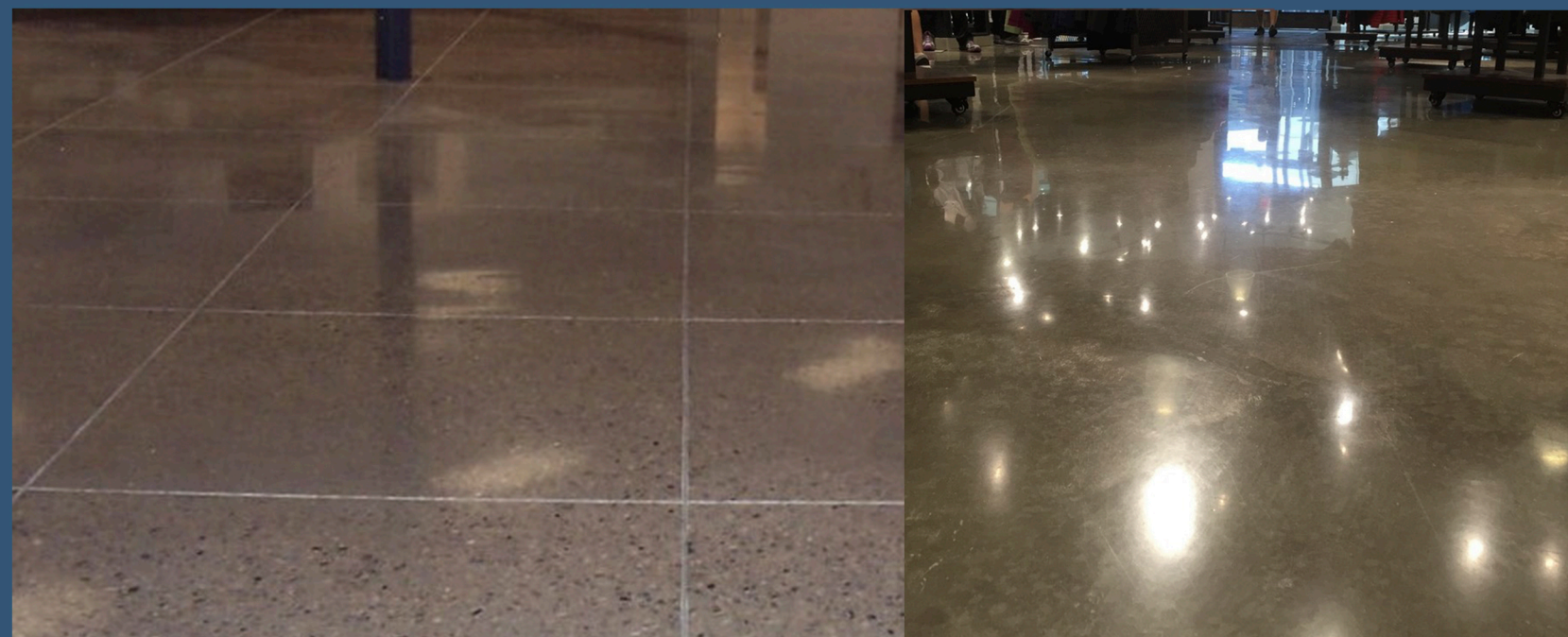
LithoHard is non-toxic, contains no solvents, and is listed as UL GREENGUARD Gold Certified, Health Product Declaration (HPD), Environmental Product Declaration (EPD), Declare Label LBC Red List Free, Super Compliant with SCAQMD and Buy American Act compliant. LithoHard's stable formula has an infinite shelf life and does not expire. LithoHard is available as an ASTM C-309, ASTM C-1315, Type 1, 1-D, and 2 Class A & B curing compound for new concrete.

## FEATURES & BENEFITS

- 20-Year Dustproofing Warranty
- Zero VOCs
- LBC Red List Free
- UL GREENGUARD Gold Certified
- Buy American Act Compliant
- UV Stable: Will not yellow
- Chloride Ion Protection
- Superior Stain Resistance
- Improves Abrasion Resistance
- Improves Skid Resistance
- No Brooming, Microfibering, or Surface Agitation Required
- Compatible with all Polish Systems
- Compatible with 1L Mix Designs
- No Maintenance or Reapplication for the Life of the Concrete
- Infinite Shelf Life

## WHERE TO USE LITHOHARD

- Interior Horizontal Substrates
- Vertical Cast in Place Concrete
- Structural & Lightweight Concrete
- Tilt Panels
- Below Grade
- Exposed Aggregate
- Colored Concrete
- Stamped Concrete
- Pre-Cast Panels
- Topping Slabs
- 1L Concrete
- Cold Storage
- Schools
- Medical Facilities
- Data Centers
- Garage Floors
- Warehouse / Distribution
- Storage Facilities
- Manufacturing Facilities
- Areas to Receive a Polish System





## SUSTAINABLE DESIGN REQUIREMENTS

- Zero VOCs
- UL 2818 Gold - GREENGUARD® Gold Certified
- Environmental Product Declaration
- LBC Red List Free Declare Label
- Health Product Declaration
- 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

## 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 C-309/C-1315: TYPE 1, 1-D, 2 CLASS A & B**
  - 0.40 kg/m<sup>2</sup>
- VOC:** 0 g/l
- COLOR:** Clear
- FOOT TRAFFIC:** 30 minutes
- VEHICULAR TRAFFIC:** 60 minutes

## 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.

## COVERAGE RATES

One-coat coverage rate is 400-450 sq ft per gallon (10-11 sq m per liter) for horizontal surfaces.  
Two-coat coverage rate is 400-450 sq ft per gallon (10-11 sq m per liter) for vertical surfaces.

## INSTALLATION

Ensure the surface is clear of curing compounds, sealers, dirt, debris, or surface contaminants that would impede penetration of LithoHard. The application of LithoHard can begin 5 days after concrete placement or anytime on existing substrates.

Apply LithoHard with an airless or tank-type sprayer. Apply a small test area to confirm penetration. If product beads on the surface, contact SINAK for additional information. If rain should occur at any time during this process, see '*Interrupted Installation*' at the end of this section.

**NOTE:** Installation of LithoHard does not require brooming, microfiber, or surface agitation for penetration. If microfiber or brooming is to be used, ensure that the pad is not oversaturated and distributes product evenly to avoid streaking.

1. Protect objects and areas not to be treated from spillage or overspray.
2. Apply one coat of LithoHard uniformly wetting the surface.  
**DO NOT** allow LithoHard to puddle or flood the surface.
3. 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.

## VERTICAL CAST-IN-PLACE INSTALLATION

For vertical applications DO NOT allow material to run down the surface.

## 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 for additional information.

## HOT WEATHER INSTALLATION

Do not apply in temperatures above 120°F (48°C). Contact SINAK for additional information.

## COLD WEATHER INSTALLATION

Do not apply in temperatures below 32°F (0°C). Contact SINAK for additional information.

## STORAGE & HANDLING

LithoHard has an infinite shelf life when stored in a cool dry area out of direct sunlight. Product 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 1-gallon (3.78-liter) jugs, 5-gallon (18.9-liter) pails, 55-gallon (208.2-liter) drums and 275-gallon (1041-liter) totes.

## TECHNICAL ASSISTANCE

Technical assistance is available from the manufacturer (800) 523-3147 [www.SINAK.com](http://www.SINAK.com).

## WARRANTY

A 20-Year non prorated warranty is available from the manufacturer. Contact SINAK for additional information.

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, loss, 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.