

# PEDESTRIAN DECK SYSTEM

## CONCRETE CURING & SEALING SYSTEM - PERMANENT WATERPROOFING

SINAK Pedestrian Deck System is a spray applied, zero VOC, clear, curing & sealing system that protects new “green” concrete substrates to receive heavy pedestrian and vehicular traffic. The Pedestrian Deck System will provide a waterproof barrier within the treated concrete for a minimum period of 20 years from the date of application. The treated area is warranted against damage from water, freeze-thaw, salt, acid rain, hydrostatic pressure, osmotic pressure, chloride ion intrusion, surface deterioration and reinforcing steel corrosion. The Pedestrian Deck System consists of curing with SINAK LithiumCure 1000 and sealing with SINAK HLO-125.

Pedestrian Deck System improves abrasion resistance, skid resistance, and enhances the durability of reinforced concrete. Substrates treated with Pedestrian Deck System are protected against water penetration, chloride intrusion, efflorescence, algae growth, mold, and staining from food, oil, & chemicals. Pedestrian Deck System is UV stable and will not yellow, peel, or degrade over time. Pedestrian Deck System is a permanent solution that saves significant time and labor during application in addition to reduced maintenance for the life of the treated surface. Pedestrian Deck System excels at protecting substrates that are expected to receive heavy vehicular traffic and extends the life of treated surfaces by decades.

Pedestrian Deck System retains the natural appearance of treated substrates and does not alter the color or texture. Pedestrian Deck System is not a bond breaker and is compatible with line striping, joint sealants, patching materials, paint, and Pedestrian coatings. Pedestrian Deck System is class 55 non-hazardous, non-toxic, and is listed as UL GREENGUARD Gold Certified, LBC Red List Free, Super Compliant with SCAQMD and Buy American Act compliant.

## FEATURES & BENEFITS

- Negative Side Waterproofing
- 20-Year Warranty
- NSF-61 Potable Water Certified
- Zero VOCs
- UV Stable: Will not yellow
- Freeze-thaw Protection
- Chloride Ion Protection
- Superior stain protection
- Improves Abrasion Resistance
- Improves Skid Resistance
- Permanent Salt Guard
- Compatible with all Paint, Coatings, and Adhesives
- Controls Hydrostatic and Osmotic Pressure
- Controls Efflorescence
- Permanent Protection from Oil, Grease, & Chemical Intrusion

## WHERE TO USE THE PEDESTRIAN DECK SYSTEM

- Vertical Cast in Place Concrete
- Structural & Lightweight Concrete
- Horizontal Surfaces
- Below Grade
- Elevator Pits
- Polish Systems
- Parking Structures
- Sound Walls
- Cold Storage
- Pre-Cast Panels
- Water Features
- Pool Decks
- Planters
- Garage Floors
- Podium Decks
- Exposed Aggregate
- Colored Concrete
- Stamped Concrete
- Pedestrian Bridges
- Pavers



The Pedestrian Deck System is specifically designed for projects with a goal of retaining the natural concrete appearance while offering permanent protection for the substrate.

## TESTING

### ASTM C-39 (Compressive Strength)

- Meets or exceeds 28-day water cure

### ASTM C-309/C-1315: TYPE 1, 1-D, 2 CLASS A & B

- Moisture Retention of less than 0.40 kg/m<sup>2</sup>

### ANSI/NSF 61 (Potable Water)

- Passed

### ANSI/NSF 372 (Potable Water- Lead Content)

- Passed

### ASTM E-96 (Water Vapor Transmission)

(Radon Certified) 0.09 grams/hr m<sup>2</sup>

### ASTM C-241 (Abrasion Resistance)

- Untreated: 4.19

- Treated: 11.0

### ASTM D-4263 (Moisture Transmission)

- Passed

### ASTM C-666: (Freeze Thaw Resistance)

- 0.85% Increase over 28-day water cured sample

### ASTM C-672: (Scaling Resistance)

- 61.4% Improvement over 28-day water cured samples

### ASTM C-944: (Abrasion Resistance)

- 29.4% Increase over 28-day water cured samples

## SUSTAINABLE DESIGN REQUIREMENTS

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

## PRECAUTIONS

Do not allow LithiumCure 1000 or HLQ-125 to come into contact with any glass, metal, or painted surfaces. LithiumCure 1000 or HLQ-125 left to dry on the surface may result in streaking, or whitening. Immediately wipe affected surfaces with a clean cloth.

## COVERAGE RATES

Two-coat coverage rate is 200-250 sq ft per gallon (5-6 sq m per liter) for horizontal surfaces.

Two-coat coverage rate is 150-200 sq ft per gallon (4-5 sq m per liter) for vertical surfaces.

## INSTALLATION

Installation should be continuous. LithiumCure 1000 application should begin after the surface is firm enough to tolerate foot traffic without surface bruising or immediately after the early entry saw cutting. Apply a small test area to confirm penetration. If rain should occur at any time during this process, see '*Interrupted Installation*' at the end of this section.

1. Protect objects and areas not to be treated from spillage or overspray.
2. Apply first coat of LithiumCure 1000 uniformly wetting the surface with an airless or tank type sprayer..  
**DO NOT** allow LithiumCure 1000 to puddle or flood the surface.
3. Immediately after the first coat is dry, apply a second coat. **NOTE:** "Dry" means dry to the touch.
4. Pay special attention to apply material in joints and on slab edges. Treatment of these areas will eliminate slab curl.
5. Clean all equipment with warm soapy water.

## VERTICAL CAST-IN-PLACE INSTALLATION

1. Application of LithiumCure 1000 may begin immediately after forms are removed.
2. Apply the first coat of LithiumCure 1000 uniformly wetting the surface with an airless or tank-type sprayer. SINAK recommends applying product top to bottom with a maximum 1-2 inch run.
3. Verify the first coat has dried to the touch before beginning the second coat.
4. Apply the second coat uniformly wetting the surface.

## COVERAGE RATES (SUBJECT TO SURFACE FINISH) - HLQ-125

Two-coat coverage rate is 300 sq ft per gallon (7 sq m per liter) for horizontal and vertical surfaces treated with LithiumCure 1000.

## INSTALLATION - HLQ-125 - 5 Days After Application of LithiumCure 1000

Installation of HLQ-125 may begin five days after application of LithiumCure 1000. Installation of HLQ-125 should be continuous. Apply a small test area to confirm penetration. If rain should occur at any time during this process, see '*Interrupted Installation*' at the end of this section.

**NOTE:** The five day period is to maximize peak product performance. For full Warranty Coverage, the installation of HLQ-125 MUST be conducted 5 to 45 days after initial concrete installation. If application of HLQ-125 cannot be completed within 45 days of concrete installation, contact SINAK for additional information.

1. Protect objects and areas not to be treated from spillage or overspray.
2. Apply first coat of HLQ-125 uniformly wetting the surface with an airless or tank-type sprayer.  
**DO NOT** allow HLQ-125 to puddle or flood the surface.
3. Immediately after the first coat is dry, apply a second coat. **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 the material to run down the surface. Areas that absorb at a higher rate should be treated with additional product.

1. Clean surface and remove any existing sealers, coatings, paint, dirt and debris.
2. Apply the first coat of HLQ-125 uniformly wetting the surface with an airless or tank-type sprayer. SINAK recommends applying product top to bottom with a maximum 1-2 inch run.
3. Verify the first coat has dried to the touch before beginning the second coat.
4. Apply the second coat uniformly wetting the surface.

**NOTE:** Paint, epoxy injections, crack repair, or coating installation can begin 4hrs after treated surface is dry. SINAK recommends a field bond test prior to coating installation.

### **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 immediately.

### **HOT WEATHER INSTALLATION**

In hot (above 100°F or 38°C), dry and/or windy conditions SINAK recommends the use of SINAK Finishing Aid during concrete placement and finishing operations.

### **COLD WEATHER INSTALLATION**

Do not apply in weather conditions below 32°F (0°C).

### **STORAGE & HANDLING**

LithiumCure 1000 and HLO-125 have 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. LithiumCure 1000 and HLO-125 MUST be protected from freezing. Product that has frozen will not function as intended, and should be discarded.

### **AVAILABILITY**

LithiumCure 1000 and HLO-125 are 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.

### **MAINTENANCE**

After application, no special maintenance or reapplication is required. The SINAK Pedestrian Deck System is compatible with all concrete cleaning and repair products.

### **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 materials warranty is available. Concrete must be placed in accordance with ACI manual section 302.1R-15. Contact SINAK for warranty requirements

SINAK Corporation 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 Corporation's liability under this product warranty shall be limited to a refund of purchase price or replacement of the product. SINAK Corporation 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 Corporation has been advised of the possibility of such loss, interruption or damage. This limited warranty may not be modified by representatives of SINAK Corporation, 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 Corporation 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.