

**SILEX<sup>®</sup> HYDRO-HARD** densifier is a proprietary formulation specifically designed using a hybrid technology that provides active protection properties that provides a depth of penetration up to 8mm deep into the slab while also producing a silica film wear layer on the surface of the concrete. **SILEX<sup>®</sup> HYDRO-HARD** chemically reacts with the silicate matrix within the capillaries and pores, forming bonds that provide excellent hydrophobicity while allowing it to remain breathable.

**SILEX<sup>®</sup> HYDRO-HARD** is a single spray-on-leave-on application, no rinse formula that enhances the durability and provides optimally protection against the absorption of water, moisture, and other aggressive substances along with forming a chloride intrusion barrier.

### GD97 = 75 HCBG A

**Application Rates:** 1/8 to 1/4 gal per sq ft

**Color/Odor:** Odorless & White Liquid

**pH Level:** 10.5 to 11.5

**Evaporation Rate (water =1):** < 1.0

**VOC:** < 50g/L

**Vapor Pressure:** < 2.2 torr. @ 68°F (20°C)

**Density (water= 1):** >1.047 @ 68°F (20°C)

**Drying Time:** 1 hr. @ 70°, 77% RH2

**Light Foot Traffic / Wheel Traffic:** 30-60 Min. / 2 Hours

**Shelf Life:** 18 months unopened

**Packaging:** 5g Pail, 55g Drum, 275g Tote

**Compliance:** ASTM E 96-10, ASTM C 944, ASTM C 779, ASTM C 1583, USDA Compliant and FDA Approved

#### Storage Instructions:

Do not break seal until product is ready for use. Maintain unused product in original container. Do NOT allow SILEX<sup>®</sup> HYDRO-HARD to freeze. Store in a well ventilated, cool, dry location and maintain temperatures between 40°-100° F (4° - 38°C).

*\* Due to the wide variety of substrates variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times.*

### BENEFITS

- Optimum Water Repellency
- Superior Hardness
- Permanently Dust Proofs Concrete
- Single Spray-on-Leave-on Application, No Rinse Required
- Preserves Natural Look
- Increases Life Expectancy
- Reduces Alkalinity Efflorescence
- Enhances & Protects Stained, Integral Color & Dyed Decorative Surfaces
- Resistance to Blushing and Will Not Yellow or Age with Exposure



### PRIMARY APPLICATIONS

- New & Existing Concrete
- Polished, Dyed & Stained Decorative Concrete
- Distribution Centers & Warehouses
- Grocery Retailers
- Industrial & Commercial Floor Slabs
- Retail Showrooms
- Medical Facilities
- Office Buildings
- Institutional Facilities

- Compliant with all US VOC regulations including US EPA, OTC, LADCO, SCAQMD & CARB
- LBC Red List Compliant
- Contribute to LEED Credits



# SILEX® HYDRO-HARD DENSIFIER

SILEX® Concrete Polishing System™ is a Silica Stacking® process requiring the use of all SILEX® tooling & floor products in sequence to attain maximum results.

## DIRECTIONS FOR USE

### PRE-APPLICATION:

Due to the wide variety of substrates, preparation methods, application methods and environments, it is highly recommended to test the product in an inconspicuous spot for compatibility prior to full scale application.

### SURFACE PREP:

Surface must be clean. Ensure the surface is not contaminated by oils, or other substances that may prevent SILEX® Hydro-Hard from penetrating the surface.

NOTE: Consider using SILEX® Hydro-Hard if the final polishing process is a densified floor.

### APPLICATION PROCESS:

Using a HV/LP sprayer, apply the product uniformly onto the slab surface after transitional or profiling diamonds have been completed. Apply SILEX® Hydro-Hard until surface rejection has occurred on the entire surface of floor.

Note: Areas that become dry, apply additional product as needed to maintain surface saturation. The floor should be about the same color across the entire surface when applied successfully.

Allow SILEX® Hydro-Hard to remain on floor 30-45 minutes; overnight if possible. Do not clean off. Continue wet polishing floor to desired specification.

*Ready to use and requires no blending or dilution. Mild agitation is recommended before use.*

### SLURRY MAINTENANCE:

Utilize SILEX Slurry Management products SlurryDry SSG™ SlurrySEP Flocc™ & SlurrySafe AR™

### CLEAN UP:

Wash equipment with soap and water. Any product that cannot be saved for recovery or recycling should be triple rinsed and disposed of according to local, state and federal regulations.

### MAINTENANCE:

Routine sweeping, mopping and mechanical scrubbing of floors with SILEX® CLEAN CR Concrete Cleaner & Restorer is recommended. Water is sufficient in some environments. DO NOT use cleaners or degreasers that are either acidic or have a butyl base; will cause stripping.

### SAFETY DATA SHEETS, TECHNICAL DATA SHEETS & TECHNICAL ASSISTANCE:

Refer to the SDS (Safety Data Sheets) for complete First Aid and Safety Information at [www.SilexSystem.com](http://www.SilexSystem.com)

**Professional Use Only:** Must be applied by a Certified Silex® Installer.

### CONTACT:

Any technical information or assistance, contact Customer Service or your Silex® Sales Representative.

## WARRANTY

Diamatic® solely and expressly warrants that for 12 months from the date of purchase of its Diamatic® Silex® flooring products shall be free from defects in material and workmanship which cause the product to fail to operate in accordance with the product's performance specifications as they exist at the time of shipment and including only to the extent that the product is properly installed by a Certified Silex® Applicator, in strict compliance with the installation/application instructions provided in its product literature &/or packaging label.

Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer will be solely responsible for determining the suitability of the Diamatic® Silex® flooring products for the Buyer's intended purposes. The Buyer must examine the product when received and promptly notify Diamatic® Silex® in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If any Diamatic® Silex® product fails to conform to this warranty, Buyer's sole and exclusive remedy shall be replacement of the defective product at no cost to the Buyer. Unless authorized in writing signed by an officer of Diamatic® Silex®, no other representations or statements made by Diamatic® Silex® or its representatives, in writing or orally, shall alter this warranty.

DIAMATIC® OBLIGATIONS UNDER THIS WARRANTY DO NOT INCLUDE ANY OTHER COSTS OR EXPENSES, SUCH AS, WITHOUT LIMITATION, ANY COSTS OR EXPENSES OF REMOVAL OR RE-INSTALLATION WHATEVER THE CAUSE OR HOWEVER INCURRED OR IMPOSED (FOR EXAMPLE AND WITHOUT LIMITATION, LABOR COSTS OR EXPENSES, ADMINISTRATIVE COSTS, OR REQUIREMENTS OF LAW OR ANY GOVERNMENTAL AGENCY OR BODY). NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY BEYOND THE AFOREMENTIONED WARRANTY PERIOD.

**IMPORTANT-BEFORE BEGINNING APPLICATION PROCESS READ, UNDERSTAND AND FOLLOW ALL LABEL, DATA SHEET, AND SAFETY INFORMATION. EMPLOYEE EDUCATION AND TRAINING IN SAFE HANDLING OF THESE PRODUCTS ARE HIGHLY RECOMMENDED.**



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