

SILEX[®] HARD Densifier is a neutral pH formula utilizing reactive colloidal silica technologies specifically designed to penetrate deeply into the substrate due to its nanosized particles and its initial hydrophilic characteristics. **SILEX[®] HARD's** fast reacting components immediately begins chemically reacting with the concrete's matrix forming insoluble cementitious compounds in the concrete's micropores and microcapillaries effectively increasing the density of the substrate, closing off micropathways making it less permeable for moisture from any direction.

SILEX[®] HARD Densifier significantly increases the durability and overall performance by increasing the density of the concrete surface, making it less permeable to liquids, increases the surface hardness, and abrasion resistance while also preventing ASR, blocks efflorescence and reduces dusting, all of which helps to reduce maintenance costs and extending its service life.

GD97 = 75 HCBG

Application Rates: 1 cc/ft² @ 100 ft² / gal

Color/Odor: Light Blue/Milky Clear

pH Level: 6 - 7

Evaporation Rate: > 1.0

VOC: < 50g/L

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

Vapor Density (air = 1): > 1

Drying Time: 1 hr. @ 70°, 77% RH2

Foot Traffic / Wheel Traffic: 1 Hour / 6-10 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 the original container. Do not allow SILEX[®] HARD to freeze. Store in a well ventilated, cool, dry location and maintain temperatures between 40°F - 100°F (4° - 38°C).

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

BENEFITS

- Higher Levels of Abrasion Resistance
- Significantly Increases Surface Hardness & Density
- Excellent Water Repellent
- Higher Gloss Readings
- Prevents ASR
- Enhances & Protects Integral Color & Dyed
- Blocks Efflorescence
- Dust-Proof



PRIMARY APPLICATIONS

- New & Existing Concrete
- Decorative Concrete
- Distribution Centers & Warehouses
- Grocery Retailers
- Industrial & Commercial Floor Slabs Manufacturing
- Medical Facilities
- Office Buildings
- Retailers

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



SILEX® HARD

DENSIFIER with Reactive Colloidal Silica

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® HARD** from penetrating the surface.

APPLICATION PROCESS:

Using a HVLP sprayer, apply the product uniformly onto the slab surface after transitional or profiling diamonds have been completed. • Apply **SILEX® 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 product to remain on floor 30 - 45 minutes; overnight if possible. • Do not clean off. • Continue wet polishing floor to the desired specification.

For porous substrates &/or Ra values are high due to porosity, contact SILEX Technical Support for application recommendations.

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

SLURRY MANAGEMENT:

Utilize Silex Slurry Management products - SlurryDry SSG™ SlurrySEP Floc™ & 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 Concrete Cleaner & Restorer** is recommended. • Water is sufficient in most environments. • **DO NOT** use cleaners or degreasers that are either acidic or have a butyl base; will causes 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

Professional Use Only: Must be applied by an approved 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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