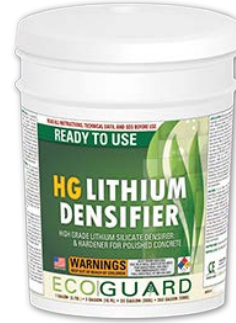


HG LITHIUM DENSIFIER

HIGH GRADE LITHIUM SILICATE DENSIFIER & HARDENER FOR POLISHED CONCRETE



ECOGUARD™ **HG LITHIUM DENSIFIER** is a specially formulated lithium silicate-based solution which is used as a hardening and densifying topical sealer for hard trowel or polished concrete applications. It is ready to use, colorless, and odorless. It reacts and converts free lime to CSH (calcium silicate hydrate), forming an insoluble bond. This produces denser concrete which greatly increases abrasion resistance, and a surface that can reflect light more evenly resulting in higher gloss.

RECOMMENDED USE: **HG LITHIUM DENSIFIER** is recommended for typical diamond polishing applications including warehouse floors, schools, retail, lobbies, hospitals, airports, showrooms, as well as decorative precast concrete polishing such as countertops.

BENEFITS:

- Enhances polished concrete surfaces.
- Promotes greater gloss.
- Resists black rubber marks.
- Decreases permeability of the surface.
- Renders floors easier to clean & maintain.
- Meets ADA Slip Resistance Guidelines.
- Greatly increases abrasion resistance

SURFACE PREPARATION

The successful application of **HG LITHIUM DENSIFIER** is dependent upon the grinding and polishing techniques used by the contractor and the concrete's porosity and aggregate hardness.

For harder and dense concrete, the application is done after the final metal bond pass, prior to resin bond abrasives and the application of PORE FILLER. For soft aggregate and porous concrete, it is bet to apply the **HG LITHIUM DENSIFIER** after the first grinding pass, and again prior to the application of PORE FILLER to ensure early densification and longer tool life.

TECHNICAL DATA WORKING AND PERFORMANCE PROPERTIES AT 70° F (21° C) APPROXIMATE VALUES

WEIGHT:	8.70 lb./gallon +/-0.10
pH:	10.0 +/- 0.50 (Alkaline)
COLOR:	Clear light blue solution
VOC CONTENT:	Contains NO VOC's
Viscosity (Brookfield):	10 cps
% Solids (Lithium):	5.5%
% Actives (Total):	>18%

COMPOSITION: Water based lithium silicate dispersions with added penetrating agents

EXISTING CONCRETE

Surfaces to be treated must be structurally sound, clean, free of all contaminants or previously applied sealants, and porous. During the first grinding pass, you may use ECOGUARD™ PRE-GRIND for an easier first grinding pass and to break down grease or oil contaminants on the concrete surface, if any. It is important to grind wet and to auto-scrub the surface after the first grinding pass. Repair all cracks, and surface depressions prior to applying HG LITHIUM DENSIFIER, using ECOGUARD™ Crack Repair and/or approved Surface Repair products.

NEWLY POURED CONCRETE

Recommended concrete mix designs should be 3500 psi minimum with no air entrainment and a maximum of 20% fly ash. Newly placed concrete should be cured a minimum of 7 days, but preferably 28 days to allow excess moisture to evaporate and fully hydrate with the cement. Surfaces should be cured by water spray, damp burlap, or Visqueen methods. If resin-based curing compounds are used, the surface must be ground completely prior to applying the HG LITHIUM DENSIFIER.

RECOMMENDED APPLICATION

HG LITHIUM DENSIFIER is typically applied by low pressure spray. Coverage is typically 200 square foot per gallon but will vary with substrate porosity as porous floors will absorb more. Apply to completely saturate the floor.

Allow 30-45 minutes for the HG LITHIUM DENSIFIER to penetrate and react. Any excess material on the surface after that time should be whisked into the concrete, using a soft nylon broom. The polishing process continues using progressively higher disc grit sizes until the level of sheen required is obtained. In the later polishing steps at 800 Grit level, an additional "light spray" of HG LITHIUM DENSIFIER can be applied at 800-1,000 ft²/gallon.

Allow to dry completely before continuing the polishing sequence to higher grit sizes. For greater surface protection, finish with POLISHIELD PSP.

CAUTIONS

CAUTIONS: **DO NOT DILUTE OR THIN.** HG LITHIUM DENSIFIER is a penetrating hardener and non-film forming. If applied excessively (puddled) and allowed to dry without being broom swept after 30-45 minutes, a white residue may remain on the surface of the treated substrate. This residue consists primarily of excessive lithium carbonate salts that have to be removed with additional polishing. Do not apply in temperatures below 55° F or above 90° F. Do not apply to frozen or frost filled surfaces. The treated surface is slippery during application and until dry.

LEED CREDIT CONSIDERATIONS: Materials and Resources: MR Credit 1.2-Building re-use. Indoor Environmental Quality: EQ Credits 4.2: Low emitting materials (VOC < 25 g/L).

GHS HAZARD RATINGS



**SKIN & EYES
IRRITANT**

WARNING: HEALTH HAZARD - IRRITANT: HG LITHIUM DENSIFIER is for use by qualified professional contractors and trained applicators. Although it is noncorrosive to skin, avoid prolonged skin contact-wash skin with soap and water if exposed to avoid irritation. Wear splash resistant eye protection and impervious gloves when handling. There are no fumes or harmful vapors associated with HG LITHIUM DENSIFIER when applied manually by high volume, low pressure or pump up sprayers. Keep containers closed when not in use and dispose of accordingly. Keep away from food and drink. Do not take internally. **Refer to product SDS (Safety Data Sheet) for complete health and safety information. FOR MEDICAL EMERGENCIES ONLY – CALL INFOTRAC AT 800-535-5053. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.**

HMS SAFETY RATINGS: HEALTH = 1, FLAMMABILITY = 0
REACTIVITY = 0, PERSONAL
PROTECTION = B (Impervious gloves, splash goggles).

HAZARDOUS INGREDIENTS - Section 313: This product contains no chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 and of 40CFR 372.

PACKAGING: 1-gallon (3.78L) bottles, 5-gallon (18.9L) pails, 55-gallon drums (207.9L)

SHIPPING NAME: Concrete Sealer -Water base
SHIPPING CLASS: ITEM 33880, SUB 2, LTL 55
SHelf LIFE: 1 year properly stored @ 60° to 80° F

WARRANTY:

Concrete Choice, LLC (CC) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. No other representations or statements made by CC representatives, in writing or orally, shall alter this warranty. CC MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. **Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages.**

CC explicitly excludes any written or oral statements or implied warranty on the performance of an applied/installed product manufactured or sold by or through CC. CC has no control over CC application standards adherence, site conditions, atmospheric variations, installer/applicator skill level or the determination of the suitability of any CC products for a specific intended purpose. Buyer shall be solely responsible for determining the suitability of CC's products for the Buyer's intended purposes.