

ECOGUARD™ CONCRETE POLISHING SYSTEM

③ ECOGUARD Densifier & Hardener

The **GREEN** alternative to permanent densification for polished concrete surfaces

PRODUCT DESCRIPTION: Concrete Earth ECOGUARD Densifier & Hardener is a proprietary water base colloidal silicate solution, which is non-hazardous, contains zero VOC's, and creates a permanent integral barrier. ECOGUARD Densifier & Hardener offers all of the advantages of sodium, potassium, and lithium silicates, with a superior micro-cellular composition resulting in greatly increased depth penetration, interior densification, and surface abrasion resistance. Once applied, it demonstrates excellent resistance to moisture and stain penetration and promotes a high gloss due to the increased density of the treated concrete.

RECOMMENDED USE: ECOGUARD Densifier & Hardener is recommended to increase surface abrasion wear resistance and as an integral moisture vapor blocker for all polished concrete applications. It can be used for related decorative concrete applications as well, including micro-toppings, stamped and textured concrete, concrete counter tops, mortar, grout, and most any other Portland cement based surface.

BENEFITS:

- **A deep penetrating micro-pore proprietary colloidal silicate**
- **Reacts with free alkali to form a 100% solids water insoluble gel**
- **Easy to apply by pump up sprayer**
- **Significantly increases concrete density**
- **Promotes a high gloss polished surface**
- **Excellent abrasion resistance**
- **Demonstrates excellent water and stain repellency**
- **Completely safe & environmentally friendly**

PHYSICAL PROPERTIES:	APPROXIMATE VALUE AT 70°F (21°C):
COMPOSITION	Proprietary, Hydrosilicate catalyst in a colloidal liquid base. >60%
WEIGHT PER GALLON:	9.20 lb./gallon +/-0.10
pH:	12.0
SPECIFIC GRAVITY:	1.10
COLOR:	Semi-transparent white liquid
WATER CAS #	7732-18-5
V.O.C. CONTENT:	Contains No VOC's
TOXICITY	Product is non-toxic

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). **MR Credit 5.2:** Regional materials-Greater than 20% extracted, processed and manufactured regionally at production location: Lemont IL 60439. 90% Content-Harvested within 500 miles.

APPLICATION: ECOGUARD Densifier & Hardener may be applied to concrete of any age. Before applying, ensure that any previously applied sealer or other contaminant potentially clogging the porosity of the concrete, has been removed by mechanical abrasion. It is recommended to apply the ECOGUARD Densifier & Hardener AFTER the application of color, as it will significantly decrease surface porosity of the concrete. Once a 100 Grit resin polished surface has been reached, and AFTER ECOGUARD Color Infusion is dry (if used) apply ECOGUARD Densifier & Hardener at a coverage rate of 300 sq. ft. per gallon, and spread evenly using a synthetic fiber micro-applicator. Use a low pressure pump up sprayer or a medium to high-pressure airless paint sprayer with a fan-style tip to apply. Once dry, move on to the next resin bond (200), and when complete, re-apply as above. Allow to dry and complete the polishing process to the desired resin bond grit/gloss factor. Surface should remain wet for 30 to 45 minutes for ideal reactivity and penetration.

LIMITATIONS: Prior to application, test the concrete for open porosity by spraying lightly with water mist. If the concrete darkens, then the surface is porous and ready to densify. If the water beads on the surface and does not penetrate easily, then the surface needs to be further abraded, and may contain cure and seal resins within the topical capillary voids.

CAUTIONS: ECOGUARD Densifier & Hardener achieves best results if ambient temperatures are above 40°F (4.4°C) and below 90°F (32.2°C). Extreme high temperatures will cause premature drying. In such cases, mist the surface to be treated with water, and apply the ECOGUARD Densifier & Hardener to the moistened surface. This allows the surface to stay wet long enough for increased reactivity and penetration.

WARNINGS: ECOGUARD Densifier & Hardener is for use by qualified professional contractors and trained applicators. Although it is non-corrosive 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 associated with ECOGUARD Densifier & Hardener when applied manually by high volume, low pressure or pump up sprayers. Before using, refer to product M.S.D.S. (Material Safety Data Sheet) for further health and safety information. Keep containers closed when not in use and dispose of accordingly. Keep away from food and drink. Do not take internally. FOR PROFESSIONAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. FOR EMERGENCIES ONLY, CALL INFOTRAC 800-535-5053.

H.M.I.S. CODES (Hazardous Materials Identification System): HEALTH = 1, FLAMMABILITY = 0, REACTIVITY = 0, PERSONAL PROTECTION = E (Impervious gloves, splash goggles and respirator). **HAZARDOUS INGREDIENTS:** Section 313 Supplier Information: 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.

SHIPPING D.O.T. CLASS: NOT-REGULATED BY D.O.T. ITEM 33880, SUB 2, LTL 55 CONCRETE CLEANER - WATER BASE.

PACKAGING: 1 gallon (3.78L) bottles (6 gallons / case), 5 gallon (18.9L) pails, and 55 gallon drums (207.9L)

STORAGE: 40° to 90° F. Keep from freezing. **SHELF LIFE:** 2 years properly stored

WARRANTY: Concrete Earth, LLC (CE) 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. Unless authorized in writing by an officer of CE, no other representations or statements made by CE or its representatives, in writing or orally, shall alter this warranty. **CE MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME.** If any CE product fails to conform with this warranty, CE will replace the product at no cost to Buyer. **Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages.** CE does not authorize anyone on its behalf to make any written or oral statements which in any way alter CE's installation information or instructions in its product literature or on its packaging labels. **CE explicitly excludes any written or oral statements or implied warranty on the performance of an applied/installed product manufactured or sold by or through CE. CE has no control over CE application standards adherence, site conditions, atmospheric variations, installer/applicator skill level or the determination of the suitability of any CE products for a specific intended purpose. Buyer shall be solely responsible for determining the suitability of CE's products for the Buyer's intended purposes.** Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind.

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