



PRODUCT TECHNICAL DATA SHEET

LITHIUM GUARD

Advanced Coating Systems

CONCRETE SEALER, GLOSS ENHANCER

GENERAL PRODUCT DESCRIPTION

Lithium Guard is a lithium-fortified, single-component, high gloss sealer that protects concrete slabs (whether mechanically scrubbed or polished) terrazzo from stains and wear. Formulated to provide increased durability, an extremely reflective surface, and deep penetration to bond to concrete. Lithium Guard resists abrasion and wear, and extends the life of polished concrete, producing a surface that can be burnished to easily remove scuffs and surface markings. Its low VOC content makes this product environmentally friendly.

ADVANTAGES

- High Gloss Finish
- V.o.c. Compliant <49 G/L
- Stain Resistant
- Water-Based
- Non-Streaking
- Peel And Flake Free
- Fast Curing
- Extended Floor Life
- Durable Surface
- Easy To Use And Maintain
- For Interior Use

PRODUCT DATA

Approximate Coverage: 1,000 - 2,000 Sq Ft 1st Application.
1,500 - 2,500 Sq Ft 2nd Application
Working Time On Floor: 20-30 Minutes
Cure Time: 30-60 Min. (Walking)
2 Hours (Traffic)
Critical Recoat Time: 15-30 Minutes With Burnishing
30-60 Minutes Without Burnishing
Shelf Life: 24 Months

Cure time, pot life, and working time are based on a slab temperature of 70-75 F°, and will change accordingly as temperature changes.

PACKAGING

Lithium Guard is available in 5-gallon containers.

APPLICATIONS

- Concrete Floors (Scrubbed or Polished)
- Terrazzo Floors
- Decorative Concrete
- Micro-Topping
- Self-leveling Cementitious Coatings

COLORS

Lithium Guard is available in clear only.

SURFACE PREPARATION

For a scrub and seal: mechanically scrub and rinse the concrete and allow time to dry prior to applying Lithium Guard.

For a grind/seal or polish: grind concrete to desired level. Vacuum dust and wipe with a microfiber to ensure a clean surface.

MIXING

Shake or stir thoroughly before applying.

PATCHING

Voids, cracks, and imperfections will be seen in finished application if the concrete is not patched correctly. Patch concrete with Polymer Patch. (A cementitious patch material is acceptable foot traffic only.) After the patching material has cured, shave and/or diamond grind the patch flush with the concrete.

TESTING

All concrete surfaces are not the same. It is recommended that a sample area be done prior to the start of the project. The test should be done on-site, using the proposed method by the assigned applicator to ensure desired finish.

APPLICATION PROCESS

NOTE: If floor is not burnished, allow each application to dry at least 30-60 minutes before applying the next coat.

1. Thoroughly clean floor to prepare for sealer. If grinding/polishing concrete, and use a clean microfiber dust mop to dust the entire area. This will help prevent dust streaks in the coating.
2. Choose from 12-24" microfiber application pads. Select pad based on size of application area and applicator's experience with sealer.
3. Apply Lithium Guard using a fine mist, pump sprayer and a clean, pre-dampened microfiber pad and applicator. Apply at a rate of 1,500-2,500 Sq Ft per gallon depending on the surface profile, spreading material thinly and evenly so it completely covers the substrate. It is recommended to seal sections no larger than 20x20' at one time. Be sure to clean the pump sprayer when finished, as the material may harden and damage the equipment.
4. Allow to dry for 30 minutes between coats if burnishing. If not burnishing, allow to dry for 60 minutes.
5. Burnish/buff with a high-speed machine (1,500-2,500 rpm). Burnishing individual coats is the recommended method to improve the curing process and overall shine. Burnishing will renew the high gloss and wear protection properties of the treated surface, easily eliminating scuffs, heal, and tire marks after initial treatment. Use 800 grit pads to burnish the first coat of sealer. For any additional coats, use 1,500 grit pads.
6. If additional coats are required to achieve desired finish, repeat steps 3-5 depending on the surface profile and desired gloss levels. Repeated applications build a stain resistant microfilm over the substrate. Do not over apply. It is important to apply very thin coats. If applied too thick, the material may not cure properly. The sealer may also become discolored, or leave streaks and applicator marks.
7. Avoid any moisture on the sealer for at least 72 hours. Do not allow standing water on the sealer for 14 days. Do not cover the surface for the first 24 hours, even with protective sheeting, can cause the material to cure improperly and result in a cloudy or whitened effect. Do not apply tape over the surface of the sealer as it will mar the surface.

MAINTENANCE

Recommended maintenance includes regular sweeping and mopping of the treated surface. Washing and mechanical scrubbing with neutral pH cleaners/water is also recommended. Do not use acidic or citrus cleaners, or cleaners that contain butoxy-ethanol on the treated floors.

PRODUCT LIMITATION

Always read ONYX PRODUCT LIMITATION GUIDELINES document prior to installation as the content below is only partial information.

Lithium Guard should only be used for interior projects only.

CLEANUP

Do not clean or scrub the surface for at least 72 hours after final application. Tools and equipment can be cleaned with soap and water. Clean up any accidental spills immediately. This product is environmentally friendly. No special or hazardous disposal methods are required. Disposal of material must comply with all local, state, and federal regulations.

WARRANTY

ONYX products are warranted for 1 year after date of manufacture. Please refer to the ONYX Limited Material Warranty for additional clarification.

SAFETY

Consult Lithium Guard safety data sheet. Avoid Lithium Guard contact with eyes and skin. Some individuals may be allergic to Lithium Guard. Always wear protective eyewear, clothing, and gloves. Safety always comes first.

MAINTENANCE

Refer to the ONYX Maintenance and Cleaning Guidelines.