



LITHIUM 100

LITHIUM SILICATE CONCRETE FLOOR DENSIFIER TECHNICAL DATA & APPLICATION INSTRUCTION

PRODUCT DESCRIPTION

Lithium 100 is an environmentally friendly, VOC free, lithium silicate concrete floor densifier, hardener, and sealer. **Lithium 100** is designed to penetrate untreated, bare concrete surfaces providing a permanent glossy, dust proof floor. **Lithium 100** reacts quickly with the floor surface to produce initial and ultimate hardness. **Lithium 100** shows great effectiveness when used in conjunction with a floor polishing machine, yielding a highly protected, hardened, and densified floor.

BENEFITS/FEATURES

- VOC Compliant, non-flammable, and odorless formula for easy indoor use.
- Effective on new and old concrete surfaces and very easy to maintain. Combats surface ASR.
- A safer floor surface. Provides excellent non-slip, high traction properties.
- Yields a UV stable, superior sheen, and resistance to abrasion and scuffing.

RECOMMENDED APPLICATIONS

Lithium 100 is recommended for mechanical concrete polishing systems as well as broom finished, trowelled, burnished, and other concrete floor applications where a floor densifier is specified.

TECHNICAL INFORMATION

Solids.....	15% (Active)	Wet Appearance.....	Clear - Hazy
Drying Time.....	1-2 hours	Dry Appearance.....	Crystal Clear
Re-Coat Time.....	2-3 hours	VOC Content.....	0
Foot Traffic.....	12-24 hours	Blush Resistance.....	Excellent
Wheel Traffic.....	24-48 hours	Solvent Resistance.....	Excellent
Application Temp.....	40°F - 85°F	Concrete Adhesion.....	Excellent

**Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.

SPECIFICATIONS/COMPLIANCES

Lithium 100 is VOC and OTC compliant in all areas of the United States and many foreign nations.

APPROXIMATE COVERAGE RATES

Application Surface	First Coat	Optional Second Coat
Freshly placed, uncured, trowelled concrete	800-1000 ft ²	800-1000 ft ²
Cured, trowelled concrete	600-800 ft ²	600-800 ft ²
Cured, ground concrete	400-800 ft ²	400-800 ft ²

**Coverage rates vary depending upon surface porosity and texture, and application method. Follow directions for best results.

SHELF LIFE

Lithium 100 has a shelf life of one year in it's original, sealed, unopened container.

PACKAGING

Lithium 100 is packaged and stocked in 1 gallon jugs, 5 gallon pails and 55 gallon drums

PREPARATION: Protect all people, property, and plants not to be treated with Lithium 100 as product splash and wind drift could occur.

Do not apply to any surface that is dirty, frozen, or heavily saturated or flooded with water. Surface must be clean and free of all debris, dry, and absorbent. Mist water in a small area to test the surface for absorbency. Any surface to be treated should uniformly wet out. If the surface to be treated does not wet out uniformly, it is then recommended to prepare the surface mechanically to remove any remaining surface contaminants.

MIXING: No mixing is necessary prior to application.

APPLICATION:

New (Uncured) Concrete: It is not traditionally recommended to apply Lithium 100 to concrete earlier than 28 days. If this application is necessary, ensure the removal of all soft cut saw debris prior to application. Apply after final troweling at a rate of 800-1,000 sq. ft. per gallon using an industrial grade sprayer with a 0.5 gal./min. fan tip, lint free mop, or soft bristle push broom. Ensure floor saturation for 15-20 minutes, removing any puddle areas with a soft bristle push broom or mop. Apply more Lithium 100 to areas that appear to be more porous and are absorbing the material more. Rework any excess material with a soft bristle broom as to allow the material to dry evenly. Remove any excess or residue with a stiff bristle broom or dry pad floor buffer.

Existing Concrete: Apply at a rate of 600-800 sq. ft. per gallon using an industrial grade sprayer with a 0.5 gal./min. fan tip, lint free mop, or soft bristle push broom. Ensure floor saturation for 15-20 minutes, removing any puddle areas with a soft bristle push broom. Apply more Lithium 100 to areas that appear to be more porous and are absorbing the material more. Rework any excess material with a soft bristle broom as to allow the material to dry evenly. Remove any excess or residue with a stiff bristle broom or dry pad floor buffer.

Polished Concrete: After completing the 400 grit stage of polishing, apply a saturating, uniform coat of Lithium 100 at a rate of 400-600 sq. ft. per gallon using an industrial grade sprayer with a 0.5 gal./min. fan tip, lint free mop, or soft bristle push broom, ensuring floor saturation for 15-20 minutes. Do not allow to puddle. Allow to dry. Follow through with additional polishing steps until desired appearance is achieved. Additional applications of Lithium 100 can be added at any stage before the final polishing phase is done if necessary at a rate of 600-800 sq. ft. per gallon. Allow to dry. Remove any excess residue with polishing diamonds or polishing pads. Flushing with water is not necessary.

Note: For softer concrete an initial application of Lithium 100 can be applied after the 80 grit stage prior to the standard polishing steps to achieve a harder surface.

PLEASE NOTE: It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc. If applying by spray method, extended coverage rates may be achieved, but be aware that less material will be applied and performance expectations may be limited.

CLEAN-UP

Use warm soap and water. Dispose of containers in accordance with local and federal regulations.

PRECAUTIONS AND LIMITATIONS

- **Lithium 100** will freeze. It is recommended to store in an area between 40 F and 85 F recommended.
- Do not puddle or apply in thick coats. **Lithium 100** should be applied only as explained above.
- **Lithium 100** is harmful if swallowed. Abide by recommended safety guidelines.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- **Lithium 100** is not a curing compound. Use on concrete less than 3 days old may result in a reduction of effectiveness.
- The use of high alkaline or acidic cleaners on the treated surface is not recommended and can be damaging.
- Protect metal, glass, wood, brick, and painted surfaces. Wash immediately with clean water if contact occurs.

SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read warranty information prior to use.

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