



Concrete Densifier

Concrete Finishes Section 3300, 3600 ACI

Product Description

LYTHIC Densifier is a blend of inorganic polymer materials that penetrate slab concrete to increase surface density and hardness. While utilizing a proprietary and “green” manufacturing process, Lythic Densifier’s unique formulation of concentrated, nano sized particles are suspended in an ultra low surface tension liquid. This chemical compound is able to penetrate deeply into concrete surfaces, bonding with the cement components of the slab. Lythic Densifier creates an extremely hard, dense floor surface that displays increased wear resistance to foot and fork lift traffic. It is water based and environmentally friendly and is VOC compliant in all states.

Primary Applications

- Interior or exterior concrete
- Warehouses/Distribution center floors
- Manufacturing plants
- Medical and Research
- Residential garages and floors
- Commercial floors

Features/Benefits

- Fills porosity/capillaries of concrete creating a permanent bond that makes floors and walls harder, less prone to dusting and absorption of most liquids.
- Meets all VOC regulations including California.
- Meets LEED Qualifying standards.
- Resists penetration of many liquids including oils and many chemicals.
- Helps minimize many rubber tire marks in warehouse applications.
- Application equipment may be cleaned with water.
- Will not discolor or blush over time.
- Not affected by bond breaker systems when used as directed.
- Will not leave a white cast on floor if over used or not removed.
- Does not require any brushing
- Reduces operating costs by increased ease of maintenance and cleaning.



Performance Advantages

- Lower pH improves reactivity and stability of materials.
- Low viscosity and smaller molecular size provides deeper and more complete penetration.
- Will not peel.
- Reduces dusting.
- Can be applied to newly troweled green slabs.

Packaging

5 gallon pails (19L)

55 gallon drums (209L)

** Ships in concentrate. One gallon of concentrate makes 5 gallons of ready-to-use product which will cover 2,500 Sq/Ft*

Technical Information

Drying Time	20 min to 1 hour
VOC Content	0 g/l
Total Solids	18%
Active Ingredients	100% of total solids
pH	9
Freeze point	32°F
Slip Resistance	Does not change floor friction coefficient
Shelf Life	1 year
Coverage	500sf/gal

Application/Directions

Lythic Densifier has two primary methods of application. The first method is designed for application while the slab is still green just after final trowel. The second is designed for use with existing or cured concrete.

New Concrete (Green)

Lythic Densifier may be applied to newly installed concrete after final trowel while slab is still Green. Slab must be clean and free of all materials such curing compounds, bond breakers, form release oils or construction dust and debris, etc. Use a low pressure sprayer to achieve a consistent, even application and to ensure consistent coverage of the surface. Re-apply as necessary to keep surface wet for 20 minutes. Let surface dry. No cleaning, flooding, neutralizing or rinsing is necessary. If curing agent is to be applied, it can now be applied over dried application of Lythic Densifier.



Existing, Cured Concrete

Lythic Densifier can be applied to concrete of any age. Surface must be clean and structurally sound. Surface also must be clear of membrane forming curing compounds, sealers, oils, dust and other surface contaminants. For best results use a black scrubbing pad with Lythic Cleaner. If more aggressive surface preparation is needed to remove surface contaminants, 60-100 grit sanding screens can be used. A thorough cleaning is needed after additional scrubbing

Diamond grinding/ polishing to an 800 grit finish with Lythic Densifier, will provide the most durable and stain resistant floor surface.

Use a low pressure sprayer to apply Lythic Densifier to form an even sheen across surface to ensure complete saturation of surface. Apply enough Densifier to keep the surface wet for 15 to 20 minutes. Let surface dry 1 hours before heavy traffic.

Clean-Up

Clean tools and equipment with water immediately after use. Residue from application and clean-up is non-toxic. Protect metals, glass, wood, paint or brick from contact with Lythic Densifier. If surface is accidentally over sprayed, wash immediately with potable water.

Maintenance

Routine sweeping, mopping and periodic mechanical scrubbing with a neutral pH, non-rinsing cleaner or water is needed. We recommend using Lythic Cleaner for all cleaning regimes.

Avoid any acidic cleaners. Acidic cleaners may etch the surface over time and cause a dulling of the finish. No aggressive scrubbing brushes such as straogrit, nylogrit or other aggressive scrubbing brush should be used. Avoid detergents containing hydroxides or sulfates.

Warranty:

When applied as directed, Lythic Densifier will reduce abrasion and wear to the surface of the concrete. Regular sweeping and cleaning of the concrete surface with Lythic Cleaner will maintain its performance and increase longevity. If applied by a certified applicator, Lythic Solutions warrants Lythic Densifier to penetrate and chemically strengthen the surface of concrete to reduce dusting for 10 years.

This warranty does not cover incidental or consequential damages nor does it cover failure of mix design, penetrating curing compounds, cracking or conditions that are a result of poor concrete finishing. Damage from faulty maintenance procedures or accidental damage to the slab is not covered.