



ACE Lithium Densifier

Product Description

ACE Lithium Densifier is a low solids, complex blend of Lithium and other inorganic soluble silicates. When applied to concrete or masonry surfaces the silicates react with calcium hydroxide and reduce porosity and permeability of the concrete matrix. This serves to increase the hardness and chemical resistance which, in turn, increases the service life of the surface. Membrane forming sealers can be worn away in high traffic areas, leaving the unprotected concrete unsightly and susceptible to chemical attack. Since **ACE Lithium Densifier** penetrates the concrete, it will not scratch or peel off. Concrete surfaces treated with **ACE Lithium Densifier** can be polished with a buffing machine to achieve a high sheen. **ACE Lithium Densifier** can also be integrated into a diamond polishing process that will result in superior gloss meter readings. **ACE Lithium Densifier** low solids formulation is easy to apply.

Intended Use

For industrial use only. **ACE Lithium Densifier** is formulated for use on concrete, terrazzo, stone and masonry surfaces during diamond polishing processes. Do not apply to concrete surfaces that have been sealed with any type of polymeric sealer. **ACE Lithium Densifier** may be applied to surfaces that have been treated previously with other silicate densifiers. Before applying this product make sure that the surface is clean and dry. Use **ACE Lithium Densifier** as received with no dilution. May be mopped or sprayed directly onto concrete surface. On vertical surfaces spray to point of runoff. On flat surfaces keep wet for 20 minutes, on soft or porous concrete apply to point of rejection. Do not let puddles dry, move puddled material with mop until dry. Do not rinse or allow water on surface for 1 hour. May be applied to new concrete after 7 days

Performance Benefits

- Reduces porosity and permeability of concrete substrates
- Increases the service life of the surface
- Reduces concrete dusting and improves ease of maintenance
- No rinsing after application
- Fast curing for optimal performance
- Zero VOC's and low odor

P.O. Box 26264 • 6720 Jubilee Center Way • Suite 102 • Knoxville, TN 37912
Office: 865.766.8425 • Fax: 865.766.8426



Product Specifications

Application	Spray and Microfiber Applicator
Appearance	Clear
Odor	Characteristic
Physical State	Liquid
VOC	Zero (less than 1g/L)

Precautions

- Please read and understand SDS prior to using
- For technical assistance, please call your ACE service representative
- DO NOT take internally
- Wash hands after using and before eating
- Keep out of reach of children
- Dispose of according to state and local regulations

Surface Preparation

Floor must be clean and free from all sealers other than **ACE Lithium Densifier**. Clean floor thoroughly by dust mopping, vacuuming, auto scrubbing or mopping. Floor may be cleaned using **ACE Neutral Cleaner** or if using an auto scrubber, **ACE Low Foaming Degreaser**. Ensure that surface is free of oil and grease. If oils and greases are present deep clean with strong solution of **ACE Low Foaming Degreaser**. Ensure surface temperature is above 40° F (4° C) or higher. Ensure adequate ventilation.

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Method of Application

Prior to any application of **ACE Lithium Densifier** apply a small amount to a cleaned, inconspicuous surface to be treated, using application procedures proposed for the application. Confirm that the surface is receptive to **ACE Lithium Densifier**.

1. Damp Mop with **ACE Neutral Cleaner** or auto scrub with **ACE Low Foaming Degreaser** at a dilution rate of 2 oz./gal of water. If heavy soils or greases are present increase the dilution rate and repeat the procedure as necessary to provide a clean surface.
2. Begin grinding or polishing process using indicated procedures.
3. After grinding to a 100 grit, apply one coat of **ACE Lithium Densifier** using pump-up sprayer and microfiber applicator. Place product evenly over the surface avoiding puddling. If puddling occurs move product to untreated part with microfiber applicator.
4. If using fans or air circulation avoid direct air movement at area of application. Allow to dry for 20 minutes. After application air movement may be used to aid in drying.
5. Continue with polishing process or other treatments. If buffing, use a high speed burnisher with **ACE Hurricane Heat Pads**. For highest gloss meter readings use **ACE Hurricane 3000 grit diamond Pad** with burnisher.
6. If desired apply a second coat of **ACE Lithium Densifier** repeating steps 3, 4 and 5.

Floor is ready for foot traffic upon final burnish with an **ACE Hurricane Pad**.

Clean Up

Clean all application tools immediately with warm water or equivalent. Clean up spills by mopping with a damp mop or use absorbent material. Take precautions to not contaminate area where **ACE Lithium Densifier** has just been applied.

Storage and Handling

Do not store above 100 deg. F (37 deg. C). DO NOT ALLOW to Freeze. Product is freeze/thaw stable. If inadvertent freezing occurs allow product to remain unmoved until completely thawed and returned to ambient temperature of 68 deg. F.



Maintenance

- **Daily**, Dust mop, sweep or vacuum.
- Damp mop with **ACE Neutral Cleaner** when necessary.
- **Weekly**, Auto scrub using **ACE Light Scrub White Pad** with **ACE Neutral Cleaner**.
- An additional coat of **ACE Lithium Densifier** may be applied as needed in high traffic areas or where excessive wear is present.
- Always follow additional applications of **ACE Lithium Densifier** with a high speed burnisher using **ACE Hurricane 3000 Grit Diamond Pads**.

Coverage

One gallon of **ACE Lithium Densifier** will cover approximately 600 square feet on smooth troweled surfaces. 1 gallon will cover approximately 300 square feet on broomed surfaces.

Warranty

ACE Lithium Densifier is warranted to be free from defects. Where permitted by law there is no other warranty with respect to this products, express or implied, including without limitation the implied warranties of merchantability or fitness for a particular purpose.