

DENSIL+ LITHIUM

FOR PROFESSIONAL USE ONLY

PACKAGING 20Litre plastic pail

DESCRIPTION Densil+ Lithium is a VOC-free lithium silicate concrete densifier, designed to treat concrete walls and floors to increase the nominal service life of the concrete and reduce ongoing floor maintenance costs. Densil+ Lithium is usually used during the grinding and polishing process of architectural concrete to produce terrazzo-like floor finish. The application of Densil+ Lithium will dramatically increase the abrasion resistance, surface compressive strength and help reduce dusting.

FEATURES

- Deep penetrating liquid hardener
- Prolongs the serviceable life of the “problem” concrete floors before resurfacing is required.
- Helps protect concrete surfaces by hardening concrete surfaces, providing increased durability and resistance to abrasion.
- Higher reactivity with Calcium Silicate Hydrate (CSH) in the concrete when compared to Sodium or Potassium Silicates.
- Cost Effective Solution

APPLICATION

MATERIAL SAFETY DATA SHEET MUST BE READ BEFORE OPENING THIS PRODUCT.

PREPERATION & CLEANING

Correct surface preparation is essential to ensure a successful application. Surfaces must be dry and absorbent, free from oil, grease, paint, curing compounds and other contaminant. Densil+ Lithium is highly alkaline and can react with glass and aluminum. Ensure adjacent surfaces are masked and protected from overspray or spills., Densil+ Lithium can be applied on green concrete, but for best results on coloured architectural concrete it is recommended to wait 28 days for the concrete to cure before applying.

INITIAL GRINDING

If grinding or polishing the floor it recommended getting an initial surface profile of 80 – 200 grit before the application of Densil+ Lithium. If the concrete substrate is still contaminated with oil, grease or other substances after the initial grinding the surface should be thoroughly cleaned before continuing.

APPLICATION

After completing the '**PREPERATION & CLEANING**' stage and when applicable the '**INITIAL GRINDING**' stage, Densil+ Lithium should be diluted 1 to 1 with water and 2 parts water to 1 part Densil+ Lithium for deeper penetration into the concrete ,use a airless sprayer or a pump type sprayer and apply a coat of Densil+ Lithium at a rate of 5 - 8 m²/L. Redistribute any excess Densil+ Lithium with a soft broom allowing the material to dry uniformly. Brooming should be avoided once drying begins. For extra porous areas additional Densil+ Lithium should be added allowing the substrate to maintain a wet look for 15 -20 minutes. After drying removing any excess powder-like residue with a stiff bristle broom, if no further grinding is required the surface may need to be washed and scrubbed with water and excess water removed before drying to prevent any undesired residue. For additional hardening allow the surface react overnight with the densifier before grinding.

POLISHING

After treating the concrete with Densil+ Lithium continue to grinding, honing and polishing progressively with finer diamond resin pads (400 – 1500 grit) until you have reached the desired finish.

LIMITATIONS

Densil+ Lithium is not a membrane-forming curing compound. While Densil+ Lithium may aid with the curing of the concrete it does not comply with ASTM C 309 requirements and is no substitute for proper curing procedures.

Excess Densil+ Lithium that has been allowed to dry on the surface will leave unsightly deposits that are difficult to remove. This residue can only be removed by mechanical means.

CLEANING

Clean equipment promptly after use with clean water.

COVERAGE RATE

Coverage will vary greatly depending on the porosity and texture of the surface of the concrete and its age. It is recommended to apply Densil+ Lithium at a rate of 5 - 8 m²/L.

SHELF LIFE

Under normal storage conditions in unopened containers, this material would have a shelf life of 2 years from date of manufacture

PRECAUTIONS

- Densil+ Lithium is strongly alkaline. Avoid contact with skin and eyes. Wear protective goggles, impervious footwear and gloves when handling
- If poisoning occurs seek medical advice. If swallowed, do not induce vomiting, give glass of water
- Refer to Material Safety Data Sheet for full safety and First Aid instructions.

PRODUCT WARNING

On-Crete Australia Pty Ltd has no control over the use or storage of this product and therefore does not accept any liability in this regard. Any verbal advice given should not be regarded as authoritative information. This information is subject to change without notice, therefore all applicators should ensure they have current information. This product is intended for the use only of skilled tradesmen and where applicable, statutory licensed tradesmen experienced and trained in the use of this product. This product is warranted to be of uniform quality within the manufacturer's tolerance. This manufacturer has no control over the use or misuse of this product, therefore no warranty rests or implied, is or can be made either as to the effects of such use. The manufacturer's obligations shall be limited to replacing product proving to be defective.