



## Lithium Silicate

# Concrete Floor Densifier, Hardener and Dust-Proofers

### DESCRIPTION

Crommelin<sup>®</sup> Lithium Silicate Concrete Floor Densifier, Hardener and Dust-Proofers is a superior, interior, clear concrete surface densifier formulated to harden concrete surfaces, increase abrasion resistance and reduce dusting. This penetrating lithium silicate treatment reacts with the concrete to produce insoluble calcium silicate hydrate within the concrete pores.

Treated surfaces resist damage from water and surface abrasion. The increased surface hardness imparted by Crommelin<sup>®</sup> Lithium Silicate Concrete Floor Densifier, Hardener & Dust-Proofers reduces dusting and simplifies maintenance producing a cleaner, healthier environment.

Safer, faster and easier to apply than conventional sodium or potassium silicate hardeners, Crommelin<sup>®</sup> Lithium Silicate Concrete Floor Densifier, Hardener & Dust-Proofers will not trigger or contribute to surface ASR (Alkali Silicate Reaction).

### FEATURES AND BENEFITS

- Strengthens concrete surfaces.
- Dust-proofs substrates.
- Provides excellent abrasion resistance.
- Reduces dusting and simplifies maintenance.
- Rapid penetration and instant curing.
- UV stable, will not yellow, discolour, peel or flake.
- Single coat, ready to use and easy application.

### AREAS OF USE

Lithium Silicate Concrete Floor Densifier, Hardener and Dust-Proofers is suitable for use in the following areas:

- Concrete Floors

### SUITABLE SUBSTRATES

Lithium Silicate Concrete Floor Densifier, Hardener and Dust-Proofers is suitable for application on:

- Existing Concrete
- Freshly Poured Concrete

## SURFACE PREPARATION

Full surface preparation instructions can be found at [www.crommelin.com.au/full-instructions/](http://www.crommelin.com.au/full-instructions/)

- Crommelin<sup>®</sup> Lithium Silicate Concrete Floor Densifier, Hardener & Dust-Proofers is ideal for application to existing, cured concrete of any age. Surfaces must be clean and structurally sound. Remove all foreign materials including bond breakers, curing agents, surface grease and oil, and construction debris using Crommelin<sup>®</sup> Water Rinsable Degreaser.
- Protect people, vehicles, property, plants and all surfaces not designated to receive Crommelin<sup>®</sup> Lithium Silicate Concrete Floor Densifier, Hardener & Dust-Proofers from the product, splash and wind drift. Use polyethylene or other proven protective material.
- Do not apply to surfaces which are frozen, dirty or have standing water. Surfaces must be clean, dry and absorbent. Confirm surface absorbency with a light water spray – surfaces designated for treatment should wet uniformly. If the surface does not wet uniformly, consider mechanical surface grinding with metal bound wet diamond grinding to open the surface and remove stubborn surface contaminants.

## APPLICATION

Full application instructions can be found at [www.crommelin.com.au/full-instructions/](http://www.crommelin.com.au/full-instructions/)

- Apply a single coat of Lithium Densifier using a low-pressure sprayer fitted with a 2 L / min. spray tip. Apply sufficient material to wet the surface without producing puddles.
- Use a clean, soft-bristle broom, brush or microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary.
- If surfaces dry immediately, apply more product. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles.

**NOTE: Allowing excess material to puddle on the floor will extend dry times and create white residues which must be removed immediately.**

- Allow treated surfaces to dry.
- Remove any dried powder residue using stiff broom, power sweeper or floor scrubbing machine.
- For immediate, enhanced shine, buff or burnish the dry concrete surface in both directions using an orbital floor machine or burnisher equipped with an appropriate polishing pad. This is a dry buffing operation.
- For additional shine and stain protection, apply Crommelin<sup>®</sup> Stain Repel as per directions.

## COVERAGE RATES

Coverage rates are dependent upon the porosity of the concrete surface to be treated and are offered as a guide only. A sample test area is recommended to determine specific coverage rates.

| Concrete Surface                          | Coverage Rate             |
|---|---------------------------|
| Freshly placed, uncured, steel trowelled. | 20 – 25 m <sup>2</sup> /L |
| Cured, steel trowelled.                   | 15 – 20 m <sup>2</sup> /L |
| Cured, ground/honed.                      | 12 – 16 m <sup>2</sup> /L |
| Porous concrete.                          | 4 – 10 m <sup>2</sup> /L  |

# Concrete Floor Densifier, Hardener and Dust-Proofers



## CURE TIME (AT 25°C)

- Initial cure 1 – 3 hours.
- Full cure 7 days.
- Drying times will depend upon temperature, humidity and air flow.
- Drying times may be extended if excess material has been applied.

## CLEAN UP

- Uncured material may be removed with warm water and detergent.

## RELATED PRODUCTS

- Crommelin<sup>®</sup> Moisture Meter
- Crommelin<sup>®</sup> Stain Repel

## PRECAUTIONS

- Lithium Silicate Concrete Floor Densifier, Hardener and Dust-Proofers is alkaline and should therefore not be handled or applied with equipment made of or containing aluminum or light alloys. For the same reason, care should be taken to avoid splashes on light alloy, aluminum or wooden components and glass (windows, etc.) and any other alkali sensitive surfaces.
- **Wear appropriate personal protective equipment (PPE). Consult Safety Data Sheet for details.**

## TRANSPORT AND STORAGE

- Size: 15L
- Weight: 18.5kg
- DG Class: N/A
- Flash Point: N/A
- UN Number: N/A
- Cool and Dry Storage

## SAFETY AND FIRST AID

Crommelin<sup>®</sup> Lithium Silicate Concrete Floor Densifier, Hardener and Dust-Proofers Data Sheet is available from Crommelin<sup>®</sup> upon request.

### Safety

- This product is very alkaline, read the Safety Data Sheet before using.
- Ensure gloves are worn at all times. Wash with soap and water when finished.
- Avoid skin and eye contact. Wear gloves and eye protection. Remove splashes on skin immediately and remove contaminated clothing.
- Keep out of reach of children.
- Keep container sealed when not in use.
- Do not swallow.

### First Aid

- If poisoning occurs, contact a doctor or poisons information centre: Ph 13 11 26.
- If swallowed, do not induce vomiting. Give a glass of water to drink.
- If in eyes, hold eyes open and flood with water for at least 15 minutes.
- If not breathing, apply artificial respiration.

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Customers need to undertake their own assessment to determine the suitability of a product for the intended use. As the performance of any product is subject to a wide variety of different surface types as well as environmental and surface-specific conditions, it is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs as required on the specific surface.

Crommelin<sup>®</sup> also reserves the right to update information without prior notice, to reflect ongoing research and product development.

