

## TECHNICAL DATA SHEET

# Concrete Shield™ Premium Densifier – Pure Lithium

ISSUED: April 2015

## INTRODUCTION

### Concrete Shield™ Premium Densifier

Is a high performance one part, Nano Lithium Silicate solution used to cure, harden and seal fresh or hardened concrete. The nano particle Concrete Shield™ Premium Lithium penetrates deeply and quickly providing faster curing and allowing for quicker polishing with no formation of white salts as seen with blended silicates.

### USE

#### Concrete Shield™ Premium Densifier

Is suitable for interior and exterior use on new or old concrete surfaces, where a hard surface with light to moderate abrasion resistance is required. e.g warehouses, industrial plants, stores, shopping malls, parking structures, service stations, hangers etc.

As a densifier in the process of grinding and polishing improved chemical and abrasion resistance Concrete Shield™ Premium Densifier reduces dusting of concrete floors whilst providing improved chemical and abrasion resistance.

### FEATURES

#### Concrete Shield™ Premium Densifier

- Reduces loss of water of new concrete while setting
- Ready to use
- Improves cleanability
- Excellent penetration
- Colorless and odourless
- Environmentally friendly

## APPLICATION

### SURFACE PREPARATION

- **Concrete Shield™ Premium Densifier**
- All substrates must be sound, dry and free from oil, grease, curing compounds impregnations, wax, coatings and loose material.
- Surface temperature should be between 10°C and 35°C. Ensure that the area is well-ventilated during application and until the surface is dry.

### APPLICATION

- For best results concrete floors should be treated 7-14 days after placement.
- Concrete less than 3 days old may contain excess moisture that will inhibit full penetration of Concrete Shield™ Premium Densifier.
- Ready to use straight from the counter.
- Apply an undiluted uniform coat at an application rate between 5 to 7m<sup>2</sup>/litre (depending on the porosity of the substrate).
- To ensure maximum penetration, scrub material into the surface with a stiff-bristle broom or an industrial floor-scrubbing machine for a minimum of 30 minutes, and until product begins to gel or becomes slippery.
- Wet material lightly with water spray and rework it into the surface for another 10 to 20 minutes. After this process, rinse the floor and remove any excess material with a squeegee and wet vacuum.
- Do not allow the material to pond, as this will cause white staining when dry.
- On porous rough-textured or broom finished surfaces a second application may be required.
- The second application can be applied 2-4 hours after the first. The second application is recommended to ensure maximum densification and protection.
- The coated surface can be used normally, including vehicle traffic, 4-6 hours after the removal of excess material.
- The surface can be buffed to produce a low sheen finish if required.

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## APPLICATION CONTINUED

### DENSIFIER IN GRIND/POLISH SYSTEM

- Apply Concrete Shield™ Premium Densifier by spray or squeegee to the surface between grinding stages.
- Optimum results are achieved with two applications –one in the early stages and another at the later stages of the grinding process.

**PLEASE NOTE:** Do not apply at polishing stage – uneven colour may result

### CURING COMPOUND

- Apply by spraying evenly as soon as the concrete has reached hardened state.

### SEALING

- Apply by spraying evenly at the prescribed rate.

### CLEAN UP

- Clean all tools with warm soapy water immediately after use.
- Do not allow Concrete Shield Premium Densifier to dry as it can only be removed mechanically.

### IMPORTANT NOTIFICATION

- Not suitable for use on natural stone.
- Do not apply over areas previously treated with membrane forming sealers unless these sealers have been completely removed.
- All substrates must be sound, dry and free from oil, grease, curing compounds impregnations, wax, coatings and loose material.
- Concrete Shield Densifier cannot be expected to make bad disintegrating concrete good. The product will not effectively work on lightweight, extremely porous or worn concrete.

## SAFETY

Avoid contact with skin and eyes. Avoid contact with foodstuff and utensils. Wear protective clothing, gloves, goggles etc. In the event of contact with the eyes or mouth, wash with clean water and obtain medical attention immediately.

For further information, refer to the Fortis Material Safety Data Sheet. [www.fortisadhesives.com.au](http://www.fortisadhesives.com.au)

### Disclaimer

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