

## TECHNICAL DATA SHEET

# Concrete Shield™ Densifier - Densifier, Surface Hardener & Dust Proofer

ISSUED: April 2014

## INTRODUCTION

### Concrete Shield™ Densifier

One part, blended silicate solution used to cure, harden and seal green or aged concrete.

### USE

For use in warehouses, restaurants, retail shops and car parks.

### FEATURES

**Concrete Shield™ Densifier** penetrates concrete to react and produce an improved resistant and dust free surface.

- Good abrasion resistance
- Good penetration
- Suitable for interior or exterior
- For use when grinding and polishing concrete floors to provide superior sheen.
- Excellent clean ability
- Used to reduce loss of water of new concrete whilst setting
- Colorless and odourless
- Water based

### TECHNICAL DATA

Color	Colorless, odourless liquid
Abrasion resistance	> 30% increase (Taber Abrader Wheel H22/1000g/500 cycles)
Moisture loss	Reduced by a minimum of 85% during initial 24hrs
Minimum substrate temperature	+ 8°C
Maximum substrate temperature	+ 30°C
Maximum relative humidity	~ 80%

## APPLICATION

### POLISHED SURFACE HARDENER

- **Concrete Shield™ Densifier** is ready to use.
- Apply in one undiluted uniform coat at an application rate between 5 to 8m<sup>3</sup>/L (depending on the porosity of the substrate).
- For maximum penetration, scrub material into the surface with a stiff bristle broom or an industrial floor-scrubbing machine for a minimum of 30minutes 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 installed 2-4hrs following the first one and is recommended to ensure maximum densification and protection.
- Floors are available for use and vehicle traffic 4-6hrs after the removal of excess material
- The surface can then be buffed to produce a low sheen hardener finish

### DENSIFIER IN GRIND/POLISH SYSTEM

- Apply **Concrete Shield™ Densifier** by spray or Squeegee to the surface between grinding stage.
- Optimum results are achieved with two applications. One in the early stages and another at the later stages of the grinding process.
- NOTE: Do NOT apply at polishing stage.

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## APPLICATION CONTINUED

### CURING COMPOUND

- Apply by spray method evenly at the prescribed rate.

### SEALING

- Apply by spray method evenly at the prescribed rate.
- 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™ Densifier**.

### CLEAN UP

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

### IMPORTANT NOTIFICATION

- Not suitable for nature stone. (Use **Fortis Stone Shield™**)
- 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 contamination wash thoroughly with water. If the eyes or mouth are affected wash with clean water and obtain medical attention immediately.

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

### Disclaimer

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