



## TuffFloor Silicate

### Sodium Silicate Based Concrete Floor Hardener and Dustproofers

#### Uses

- Used to improve the surface of concrete floors.
- Provides long lasting, hard wearing floor surfaces with reduced maintenance requirements.

#### Typical Applications & Advantages

- Non dusting.
- Permanent penetrating treatment.
- Suitable for new and old concrete.
- Simple and easy to use, no skilled labour.
- Single component.
- Hardening action improves abrasion resistance.
- Factories, agricultural buildings and warehouses.
- Industrial units for maintenance, storage or prefabrication.
- Showrooms & electrical workshops.

#### Product Description

**TuffFloor Silicate** is a colourless low viscosity liquid used for dust proofing and hardening the surface of concrete floors. The reactive solution penetrates deeply into the concrete to react with the free lime forming hard insoluble crystals; these crystals bind the cement and aggregate particles together. The result is a hard impermeable non dusting concrete surface.

#### Typical Properties

Appearance	: Colourless liquid
Specific gravity	: 1.11 @ 25±2°C

#### Technical Support

GIC provides a comprehensive technical support service to specifiers, end users and contractors and is able to offer on-site technical assistance.

#### Instructions for Use

**Surface Preparation:** The floor to be treated must be free from dust, loosely adhered material, and plaster and cement droppings, grease oil and paints etc. In addition the floor surface should be dry.

**Application:** Stir the **TuffFloor Silicate** before it is used. Then spread evenly over the surface to be treated. Work in small areas initially until experience is gained on work rates. Spread the **TuffFloor Silicate** evenly, using a broom or squeegee, to ensure maximum coverage and penetration. Any **TuffFloor Silicate** not absorbed should be removed.

A second treatment should be carried out after 24 hours. Consumption rates will fall with subsequent treatments. Some very porous floors may require three treatments. The floor should be washed down with clean water 48 hours after sealing and before use. The floor may be lightly trafficked during sealing. Clean all equipment immediately after use in water.

#### Watch Points

- New concrete should be allowed to fully cure prior to treatment (minimum 21 days).
- On old floors, ensure the floor is structurally sound before application. **TuffFloor Silicate** will not be suitable on weak or friable floors.
- Power floated and dense floors may not absorb **TuffFloor Silicate** as readily as the surface is already sealed. Test areas should be carried out. Seek advice from GIC for alternative treatments.
- Carry out trials on coloured concrete to ensure the finish achieved is acceptable.

#### Packaging & Storage

**TuffFloor Silicate** is supplied in 20 litre & 210 litre units and it has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

#### Coverage

Coverage rates vary according to the density, porosity and texture of the floor and cementitious surfaces to be treated. Typically a coverage rate of 4-5m<sup>2</sup>/litre/coat can be expected. Two or more coats may be required according to the porosity and age of the concrete.





**TufBond**

### Health & Safety Precautions

**TuffFloor Silicate** does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

For further information refer to the Material Safety Data Sheet available for this product.

### Important note

GIC endeavors to ensure that the technical information contained herein is true, accurate and represents our best knowledge and experience. No warranty is given or implied, as GIC has no control over the conditions of use and the competence of any labor involved in the application are beyond our control.

**As all GIC technical data sheets are updated on a regular basis it is the customer's responsibility to check that the product is suitable for the intended application, and that the actual conditions of use are in accordance with those recommended.**

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