

# SILICATE FLOOR HARDENER

## Product Codes

TF16, TF17, TF25, packaging listed overleaf

## Description

Silicate Floor Hardener, a hardener and dust proofer for concrete surfaces, is a water based solution of silicates which penetrate and react with free lime within the concrete surface. The chemical reaction produces a case hardening to the concrete which reduces abrasion wear plus reduction in dust formation and increased resistance to oils, greases and chemicals. Suitably diluted Silicate Floor Hardener solution is applied by spraying, brushing, watering can or squeegee. Rates of dilution for different qualities of concrete including new or old concrete, granolithic floors and screeds and pre-cast concrete units are given in the table overleaf.

- Uses include:**
- Harden and dustproof concrete surfaces.
  - Reduce permeability of concrete to water and oils.
  - Improve floors in warehouses, factories and industrial locations, car parks and hard standing areas.

## Specification Outline

Floor hardening treatment shall be carried out using Silicate Floor Hardener as manufactured by Tecroc Products Ltd. The product must be stored, handled and placed strictly in accordance with the manufacturer's instructions.

## Typical Physical Properties @ 20°C

**Values for undiluted Silicate Floor Hardener**

**Density** 1400kg/m<sup>3</sup>

**Viscosity** 0.9 Pa.S

## Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN ISO 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

## Instructions For Use

### Preparation

The concrete must be clean, free of dust and free from oil and grease. Remove any existing concrete curing membrane or existing coating which may prevent the Silicate Floor Hardener from penetrating the concrete surface. Cracks and holes should be repaired using CR Mortar or CR Mortar Fine. Remove any standing water from the concrete surface prior to the application of the Silicate Floor Hardener. For best results Silicate Floor Hardener should be used on concrete not less than 14 days old.

### Mixing

Mixing should be carried out in accordance with the volumes given in the mix design table given overleaf. The dilution will vary according to the floor surface type and it is recommended that a small area is tested first to ascertain the dilution required.

### Application

One to three coats will be required depending on the strength and permeability of the concrete. Apply the Silicate Floor Hardener solution by spraying, brushing, watering can or squeegee. Avoid 'pooling' by moving the excess over the surface. The floor will absorb the solution within 6-12 hours leaving a dry surface. Second and third coats may be required once the first coat has dried. After the first coat has been applied and has dried the concrete absorption will decrease. Second and third coats, if required, should be allowed to dry for some 6 hours then the concrete surface must be thoroughly washed off with clean water. Failure to carry out the washing off stage may result in a surface sheen which can abraid during service and may be slippery in wet conditions.



Grouts



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