



## Technical Data Sheet

### Description

**Tek-Floor FHS** is silica based and designed to provide high strength concrete floor hardener. Fresh concrete floors treated with **Tek-Floor FHS** will be resistant to chemical, spalling, deterioration and surface abrasion.

### Advantages

- Waterproof
- Produces non porous surface
- Resistant to oil and grease
- Non-corrosive
- Rust free
- Easy application

### Uses\

- Industrial Floors
- Car parks
- Warehouses
- Automotive assembly plants
- Steel mills
- Power stations
- Departmental stores
- Loading and unloading areas

### Physical Properties\*

| Property             | Typical Results                                     |
|----------------------|---|
| Compressive Strength | >60 MPa   |
| Abrasion resistance  | 300 % increase when compared to grade N 40 concrete |
| Mohrs Hardness       | >6  |

\*The above properties are average laboratory values

### VOC Content

Nil

### Packing

**Tek- Floor FHS** is available in 25 kg bags

### Theoretical Coverage

3 – 7 kg/m<sup>2</sup> depending upon the areas of application and traffic movement.

### Shelf Life

12 months when stored in factory packed unopened bag in a cool dry and elevated place away from direct sunlight excess humidity and at a temperature not more than 35°C.

### Application Guidelines

Spraytek provides detailed method statements on all its products for use in various areas of applications. These must be referred to prior to carry-out the works. The information below is intended for guidance only.

### Concrete Preparation

Concrete should be placed and leveled in accordance with good concrete practice. It is highly recommended to estimate the recommended quantities per square meter per bay. Timing for application should begin without any delay when the concrete has hardened to the point when thumb pressed hard onto the surface only leaves a 'print' of about 3-6 mm depth. Any bleed water should now have evaporated, but the concrete should have wet sheen. Broadcast **Tek-Floor FHS** evenly by hand or suitable equipment, 3 kg/m<sup>2</sup> for light traffic areas, 5 kg/m<sup>2</sup> for medium traffic areas and 7 kg/m<sup>2</sup> for heavy traffic areas.

### Application

The first application is broadcast the product at an even rate of 2-3 kg/m<sup>2</sup> onto the concrete floor surfaces. When the broadcasted **Tek-Floor FHS** becomes consistently dark by the absorption of moisture from the base concrete, this first application can be floated. Wooden floats or, on large areas, a power float, may be used. It is eminent that **Tek-Floor FHS** applied surfaces should not be overworked.

Immediately after floating, the remaining **Tek-Floor FHS** should be applied uniformly over the surface at the right angles to the first stage application. When moisture has been absorbed, the surface can be floated in the same way before. When the concrete is stiff enough, the final finishing of the applied floor surfaces using the blades of

power float may be carried-out, to avoid any damages. Where bay edges are likely to suffer predominantly heavy wear or impact and where saw-cut transverse control joints are situated, it is advisable to give such areas additional protection by immediately after leveling the freshly placed concrete, broadcast additional **Tek-Floor FHS** at a rate of 0.5 kg/linear meter in a band 100mm wide along the bay edge and hand-trowelled into the surface. These reinforced bands will be further strengthened when the subsequent full treatment applied.

It is essential to ensure that there is adequate manpower, number of equipment, material is sufficient to complete the whole areas while sufficient moisture is available to fully react with **Tek-Floor FHS** to provide a good dense finish.

All tools shall be cleaned with solvent as per Spraytek recommendation immediately after use. Hardened materials can be removed mechanically only.

Any addition of water to wet out the surface on either the first or second application of **Tek-Floor FHS** will be detrimental to overall quality of the floor.

**Tek-Floor FHS** is available in wide range of standard colors, however it requires extra care and need to be protected from damage and staining after completion. Concrete substrate characteristics such as water content and cement quality may induce slight color variations.

#### Curing

Proper curing of concrete floors treated with **Tek-Floor FHS** is important to achieve physical properties of the finished floor for at least 14 days using **Tek-Cure WB** high efficiency curing compound or with water. Wet hessian or ponding of water not recommended.

#### Precautions

Ensure the temperature range for use 5°C to 45°C.

Do not apply in rain or windy conditions or at temperature below 5°C.

Do not apply in direct sun light

Do not use water to finish

Do not use **Tek-Floor FHS** in areas exposed to acids and their salts or other materials likely to rapidly attack or deteriorate concrete containing Ordinary Portland Cement.

Do not apply to concrete containing calcium chloride or concrete having greater than 3% air entrainment.

#### Technical Support

Spraytek offers full technical support package to specifiers, contractors and end users, as well as technical assistance on site and after sales consultations.

#### Health & Safety

As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn. See packaging/MSDS for specific instructions.

Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

|             |                   |
|-------------|-------------------|
| Reference # | TDS / STC / TFFHS |
| Issue Date: | 01/2012           |
| Revision #  | 0                 |

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