



## Technical Data Sheet

### Description

**Tek-Floor SF** is a two component solvent-free high performance ceramic enhanced, high build epoxy floor coating. It is designed to provide high abrasion resistance and protection against chemical attack. These superior properties are further enhanced by the availability of a wide range of high & semi –gloss colours for aesthetics.

### Advantages

- Solvent-free coating
- High abrasion resistance
- Resistance to wide range of chemicals
- Formaldehyde free
- Non-toxic
- VOC complaint
- Available in range of standard colors

### Uses

- Car park floor
- Industrial floors
- Heavy duty traffic floors
- Pharmaceutical industries
- Food & beverage industries
- Clean rooms
- Service areas
- Staircases
- Auto repair bays

### Physical Properties\*

Property	Typical Results
<b>Compressive strength (BS 6319)</b>	>70 MPa @ 28 days
<b>Flexural Strength (BS 6319)</b>	>42 MPa @ 28 days
<b>Tensile strength (ASTM D 638)</b>	22 MPa @ 28 days
<b>Abrasion resistance (ASTM 4060, CS17 wheel)</b>	76.1mg loss/1000 cycles
<b>Impact resistance</b>	No cracking
<b>Bond strength to concrete</b>	Greater than cohesive strength of concrete

\*The above properties are average laboratory values

### Application Properties

<b>Dry film thickness</b>	Two coats of 200 microns DFT each coat
<b>Pot life</b>	60 minutes at 25°C
<b>Touch dry</b>	6 hours at 25°C 4 hours at 35°C
<b>Minimum overcoat time</b>	4 to 6 hours
<b>Maximum overcoat time</b>	24 hours
<b>Light foot traffic</b>	18 to 24 hours
<b>Full cure</b>	7 days (exposure to chemicals)

### Volatile Organic Content

VOC <10g/L

### Fire performance

BS 476 Part 7: Class 1 surface spread of flame

### Food Contact

Meets USDA requirements for incidental food contact.

### Chemical resistance

Hydrochloric acid, 30%: excellent  
Nitric acid, 20%: good  
Acetic acid, 10%: very good  
Sulphuric acid, 40%: excellent  
Sodium hydroxide, 50%: excellent  
Kerosene: excellent  
Ketones: non resistant  
Alcohol: good  
Skydrol: excellent  
Petrol: excellent  
(For chemicals not listed, please consult Spraytek)

### Packing

**Tek-Floor SF** is available in 15 lt. pack.

### Theoretical Coverage

**Plain Coating** : 5.0 square meters per litre at 200 microns WFT / DFT  
(2 coats recommended at above thickness)

## Anti-Slip Coating

**Base Coat** : 5.0 square meters per litre at 200 microns WFT / DFT

**Top Coat** : 5.0 square meters per litre at 200 microns WFT / DFT

(NOTE: Actual coverage may be less and dependent on substrate profile and porosity.)

## Shelf Life

12 months when stored in cool dry environment in factory packed unopened containers.

## Installation Guidelines

Spraytek provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting the work. The information below is a summary intended for guidance only.

## Surface Preparation

Concrete substrate must be structurally sound. Loose or unsound concrete should be removed. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The substrate must be prepared to create a 'key' for bonding by shot blasting. Any blow holes should be filled with **Tek-Crete EFC**. The moisture content of the concrete substrate should be less than 7%.

## Priming

The substrate must be primed using **Tek-Prime SF** primer and allow to dry, prior to application of **Tek-Floor SF**. Ensure that no ponding of the primer during the application and applied to appropriate thickness and it is not applied too thick. If the primed surfaces left to dry for more than 24 hours the surfaces has to re-primed.

If the concrete substrates are too porous, then it is recommended to use multiple coats of **Tek-Prime SF** to seal of the surfaces.

## Mixing

**Tek-Floor SF** is supplied as a two component epoxy resin product. Add 'Part B' to the 'Part A' into suitable clean container and slowly mix with low speed drill (300-500 rpm) with mixing paddle. Mix approximately for 3-5 minutes to achieve streak free consistency. Improper mixing will result in a soft or tacky / uncured surface. DO NOT add thinner or any solvents.

## Application

Apply in two coats of 200 microns per coat WFT using medium pile roller. Recoat if necessary after 4 to 16 hours at 35°C.

## Anti-slip resistant finish

Anti-slip resistant can be achieved by broadcasting **Tek-Grip Fine** or **Tek-Grip Medium** at the rate of 0.5 to 1.0 kg per m<sup>2</sup>, depending upon the required anti-slip surface finish.

## Precautions

Do not add any thinner or solvent.  
Do not mix by hand.  
Do not part mix, use full pack.  
Do not apply in wet conditions or at temperature below 3°C of the dew point.  
Do not over mix the product.  
Do not dispose into water drains.

## 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 /TFSF
Issue Date:	06/2012
Revision #	1

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