



## Technical Data Sheet

### Description

**Tek-Screed SS1** consists of a special resin and graded aggregates formulated to withstand chemical attack and impact shock. The product is supplied as a three component system comprising of base, resin hardener and filler. It provides a surface ready to receive application of other Spraytek flooring systems.

### Advantages

- Cost effective
- Seamless
- High strength
- Durable
- Easy to lay

### Uses

**Tek-Screed SS1** is an economical method of levelling floors prior to laying epoxy screed, toppings or coatings.

### Physical Properties\*

Property	Typical Results
Compressive strength ASTM C 109	>70 MPa – at 7 days
Flexural Strength ASTM C 580	>19 MPa – at 7 days
Tensile strength ASTM D 638	>13 MPa at 7 days
Water absorption	Nil
*The above properties are average laboratory values	

### Application Properties

Pot life	60 minutes at 25°C
Initial Hardness	16 hours at 25°C
Full cure	3 days (exposure to chemicals)
Adhesion	Greater than tensile strength of concrete

### Packing

**Tek-Screed SS1** is available in 15 liter kit.

### Theoretical Coverage

10 square meter per kit at 1.5 mm thick.

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%.

New concrete should be minimum 28 days old with a maximum moisture content not exceeding 7%.

Mechanical cleaning methods are strongly recommended on old concrete particularly where heavy contamination by oil and grease has occurred or existing coatings are present. To ensure adhesion, all contaminants should be removed by the use of proprietary chemical degrease.

### Priming

Priming is not normally required provided the substrate is sound, untreated, dry and good quality concrete.

## Mixing

**Tek-Screed SS1** is supplied as a three 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. Add part C filler and mix using a slow speed electrical drill fitted with a paddle ( 200 – 300 rpm).

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

Spread the mixed **Tek-Screed SS1** onto the substrate at a uniform thickness. The subsequent use of a spiked roller , eliminates air entrainment.

## Over coating

Overcoating of **Tek-Screed SS1** should not start until it is 18 hours old but not later than 48 hours

## Cleaning

**Tek-Screed SS1** can be cleaned off from the tools and equipment while still wet with **Tek-Clean**.

## 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.

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