Tek-Screed SS

Solvent-free high build epoxy self-smoothing floor screed

Spraytek Coatings

Technical Data Sheet

Description

Tek-Screed SS is a three component solvent-free high performance ceramic enhanced, high build epoxy self-smoothing floor screed. It is designed to provide high abrasion resistance and protection against chemical attack.

Tek-Screed SS available in two grades:

- SL 2, thickness: 1 to 2mm
- SL 4, thickness: 2 to 4mm

Advantages

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

Uses

- Pharmaceutical industries
- Food & beverage industries
- Clean rooms
- Hospitals & Clinics
- Laundries

Physical Properties*

Property	Typical Results	
Product	SL 2	SL 4
Density, (g/cc)	1.4 ±0.05	1.75 ± 0.05
Compressive strength (BS 6319) at 7 days	>75 MPa	
Flexural Strength at 7 days (MPa) (BS 6319)	>30 MPa	
Tensile strength (ASTM D 638)	>15 MPa	>20 MPa
Abrasion resistance (mg), ASTM C 779	<50 mg	
Impact resistance	Nil	
Bond strength to concrete	Greater then cohesive strength of concrete	
*The above properties are average laboratory values		

Application Properties

Pot life	60 minutes at 25°C
Touch dry	6 hours at 25°C 4 hours at 35°C
Minimum overcoat time	4 to 6 hours
Maximum overcoat time	24 hours
Light foot traffic	18 to 24 hours
Full cure	7 days (exposure to chemicals)
Application temp	5° C to 35°C

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

Lactic acid, 10%: good
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-Screed SS is available in 15 lt. kit.

Theoretical Coverage

1 lt./m^2/mm thickness

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-Screed SS**. 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-Screed SS is supplied as a three component epoxy resin product. Add 'Part A' to the 'Part B' into suitable clean container and slowly mix with low speed drill (300-500 rpm) with mixing paddle, then slowly add the filler 'Part C'. 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. Part mixing is strictly not allowed.

Application

Ensure sufficient labor and material is available at site for a smooth continuity of application. Apply **Tek-Screed SS** self smoothing screed, by pouring on to the primed surface and spread with a steel notched trowel to achive a 0.75mm to 7mm seamless screed depending upon the thickness used. Once the material is evenly spread, continuous spiking with a spiked roller is to be done to remove any trapped air. Spiking should be stopped once the screed starts hardening.

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 5°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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