Tek-Floor UVR

Solvent-based UV resistant floor coating

Sprayteck Coatings

Technical Data Sheet

Description

Tek-Floor UVR is a two component solvent-base high performance, high build polyurethane floor coating. It is designed to provide high abrasion resistance and protection against UV light. These superior properties are further enhanced by the availability of a wide range of high & semi –gloss colours for aesthetics.

Advantages

- High abrasion resistance
- UV resistance
- Resistance to wide range of chemicals
- 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
Compressive strength (BS 6319)	>70 MPa @ 28 days
Flexural Strength (BS 6319)	>42 MPa @ 28 days
Tensile strength (ASTM D 638)	>22 MPa @ 28 days
Abrasion resistance (ASTM 4060, CS17 wheel)	76.1mg loss/1000 cycles
Impact resistance	No cracking
Bond strength to concrete	Greater then cohesive strength of concrete
*The above properties are average laboratory values	

Application Properties

Dry film thickness	Two coats of 50 microns DFT each coat
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)

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 UVR is available in 19 lt. pack.

Theoretical Coverage

Plain Coating : 6.5 square meters per litre at 100 microns DFT
(2 coats recommended at above thickness)

Anti-Slip Coating

Base Coat : 6.5 square meters per litre at 100 microns DFT
Top Coat : 13 square meters per litre at 50 microns 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 UVR**. 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 UVR is supplied as a two component Polyurethane 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 100 microns per coat WFT using medium pile roller. Reocat 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^2, 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.

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