



Technical Data Sheet

Description

Tek-Coat UVR is a high performance polyurethane system specially developed for the long term cosmetic protection of all types of structures such as concrete, brickwork, plaster, GRP, steel, aluminium or galvanised steel.

Tek-Coat UVR is based on a unique blend of acrylic and urethane polymers reinforced with colour stable and chemical resistance pigments to provide a system that provides outstanding weather, abrasion, chemical resistance.

Advantages

- Colour stable
- Excellent weather resistance.
- Excellent adhesion
- Excellent abrasion
- Excellent impact
- Excellent chemical resistance
- Optimum gloss and colour stability

Uses

Tek-Coat UVR is ideal for long term cosmetic protection of all types of structures such as concrete, brickwork, plaster, GRP, steel, aluminium or galvanised steel.

Physical Properties*

Properties	Test Results
Abrasion resistance ATSM D 4060	25 mgm weight loss/500 cycles, 1 kg load
Impact resistance , BS2782 part 3	No failure when dropped at 45 cm (0.9 kg load)
UV resistance , ASTM G 53	1000 hrs Q UV-B no loss of gloss or colour
Scratch resistance , BS 3900 Part E2	No failure at 2.5 kg load
Water vapour permeability , ASTM D1653	3.74 x10 -5 perm.cm
*The above properties are average laboratory values	

Packing

Tek- Coat UVR is supplied in 4 and 19 liter packs

Application Properties

Mixing ratio	4:1 (Base : Hardener) for matt & low gloss 3:1(Base : Hardener) for gloss and semi gloss
Appearance	Base – coloured , Activator – clear liquid
Pot Life	2 hours
Touch dry	3-4 hours
Hard dry	16 hours
Minimum over coating	6 hours
Maximum over coating	24 hours
Full cure	7 days
Volume solids	55%
VOC	365 gm/litre
WFT	72 microns
DFT	40 microns

Coverage

13.75 m² / liter at 40 micron dry film thickness.

Shelf Life

12 months when stored in factory packed unopened kit 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.

Surface Preparation

The new concrete should be at least 7-14 days old. The surface should be sound, clean, dry and free from any dirt, loose debris, oils, grease, curing compounds sealers etc. Should be prepared and primed with **Tek- Prime SF** in accordance with the product data sheet. For metal surface, surface be abrasive blast cleaned, any resulting dust and debris should be swept clean. The surface can be then primed with **Tek-Prime SB**

Mixing

Tek-coat UVR is a two component material comprising of base and activator components which must be mixed prior to use.

The base component should be thoroughly stirred to ensure no separation and then activator should be added. The product to be mixed continuously to get a homogeneous mix.

The material mixed should be used within two hours at 20 degree C.

Application

Application should not be carried out when air and surface temperature are below 5 degree or the humidity exceeds 85%.

Tek-Coat UVR can be brush, roller or spray applied. Brush application should be carried out using even brush strokes. The product should not be over brushed which may lead to lower than specified thickness.

For roller application, **Tek-Coat UVR** should be spread evenly over the surface to give a wet film thickness of 100 microns. Periodic thickness check has to be done to ensure correct uniform thickness.

Thinning is normally not recommended. If required any, then to be thinned with polyurethane thinner.

For airless spray, the settings are as follows,

Tip Size : 0.013 – 0.015 "

Tip Pressure : 2000 psi

Pump ratio : 32:1

Excellent high tip spraying pressures should be avoided. The minimum pressure at the pump conducive to good atomisation should be used.

Tek coat UVR may require 10% polyurethane thinner for airless spray application.

Cleaning

All equipment's must be cleaned immediately after use with water, stubborn deposit should be removed with universal thinner.

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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