



## Technical Data Sheet

### Description

**Tek-Flex RW** is a single component elastomeric UV resistant acrylic waterproof and protective coating, also used to protect exposed concrete structures against carbonation and chloride ion diffusion.

### Advantages

- Single component
- Specially developed for hot weather, easy to apply
- UV resistance
- Elastomeric – high crack bridging capability
- VOC complaint
- Excellent adhesion to most of the substrates
- Good resistance to dilute acids, alcohol, hydrocarbons, chloride and sulphate ions

### Uses

Used as waterproof and protective coatings for:

- Sloped concrete roofs
- Metal and cement profile roofs
- Anti-carbonation protective coating for basements, underpasses & bridges
- Protective coating on polyurethane foam insulation

### Physical Properties\*

Property	Typical Results
Toxicity	Non-toxic
Solid content	60%
Bond strength	>2 MPa - concrete
Water vapor permeability	1 x 10 <sup>-4</sup> perm.cm
Tensile strength	>4 MPa
Elongation	150%
Tear strength	9.8 kg/cm unreinforced
	17.3 kg/cm reinforced

\*The above properties are average laboratory values

### Packing

**Tek-Flex RW** is available in 5 lt. and 20 lt. packs.

### Theoretical Coverage

Theoretical coverage rate is 3.3 m<sup>2</sup> / lt. at 180 microns DFT.

Recommended minimum film thickness per coat should be:

Wet 300 microns

Dry 180 microns

### Shelf Life

12 months when stored in factory packed unopened drum, stored in a cool dry and elevated place away from direct sunlight.

### Application Properties

Property	Typical Results
Application temperature	5°C to 40°C
Service temperature	-5°C to 70°C

### 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

The **Tek-Flex RW** system should only be applied to structurally sound roof areas. On flat roofs which have been dressed with large or medium size chippings, these must be removed prior to application. A mechanical flail should be used to remove the chippings and then the area swept down to remove all loose dirt and dust.

On asphalt roofs, blisters should be cut out and the void filled with polymer concrete screed. On felt roofs, severe blisters should be cut open and bonded flat.

Any areas of moss or lichen growth should be treated with **Spraytek Fungicidal Wash** in accordance with the instructions.

Any surface to be protected must be clean, dry and firm, and this is especially important with metallic, glass or plastic surfaces.

At any wide joints (such as joints on corrugated roofs or poor fitting flashings) or where excessive movements can be expected (such as valley gutter joints) it is advisable to apply **Tek-Flex Bridging Tape** over these areas. To apply the **Tek-Flex Bridging Tape**, simply press down firmly, following the contour as far as possible. Finally, ensure the edges of the **Tek-Flex Bridging Tape** are pressed down to be flush with the surface.

### Priming

The substrate must be primed using appropriate selection of primer prior to application.

### Mixing

**Tek-Flex RW** is supplied as a single component supplied ready-to-use no mixing is required but it is advisable to shake the container prior to use to obtain a consistent product. Do not add any additional water.

### Application

**Tek-Flex RW** should not be applied below 5°C, when rain is falling or when rain is imminent, or when humidity exceeds 90%.

In winter months due consideration must be given to the early onset of condensation formation in early afternoon and application of **Tek-Flex RW** should be discontinued well before this time.

The **Tek-Flex RW** system is a two coat system using with **Spraytek Reinforcement Membrane** embedded in the first coat. The reinforcing must follow the contour of the surface and must not be pulled or stretched to leave hollow areas. **Tek-Flex RW** should then be brushed onto and through the Reinforcement, keeping the thickness of the **Tek-Flex RW** as even as possible and no thicker than is required to wet down the reinforcing.

The second coat of **Tek-Flex RW** should then be applied using a good quality brush a minimum of 2-4 hours after the first coat. The minimum overcoating interval will depend upon the roof temperature and drying conditions. Provided the first layer is clean there is no maximum overcoating time.

Do not apply the product beyond the areas coated with primer. Where large applications are involved, Reinforcing should be laid out over the primed area and the **Tek-Flex RW** brushed through the Reinforcement membrane to provide a uniform layer which follows

the contour of the surface. Adjacent widths of reinforcement should allow minimum 5 cm overlap.

### Precautions

Do not add additional water or re-temper the mix.

Do not apply in rain or wet conditions or at temperature below 5°C.

Do not expose to running water until the product is fully cured for 7 days.

### 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 /TFRW
Issue Date:	01/2012
Revision #	0

The information contained herein is to the best of our knowledge, belief, and accuracy. However, hence the conditions of handling and usage beyond our control. We make no warrantee of results, and assume no responsibility or liability for any damages or consequential damage incurred by the use of the product. Our products are sold on the condition that the user shall evaluate them, as well as our recommendations. To determine their suitability for a particular purpose. The user is solely responsible for the selection of Spraytek products.



## Spraytek Coatings LLC

P.O. Box 27356, Dubai, U.A.E., Tel.: +9714 2221432, Fax: +9714 2275750, Email: info@spraytek.ae

[www.spraytek-me.com](http://www.spraytek-me.com)