



## Technical Data Sheet

### Description

**Tek-Prufe CW** is a single component cementitious waterproof coating for new and old concrete and masonry surfaces.

### Advantages

- Interior & exterior use
- Easy application
- Non-toxic, non-odor
- Can be used in contact with potable water
- Can be applied on damp concrete surfaces

### Uses

- Potable water tanks & reservoirs
- Concrete & masonry substrates
- Lift pits, Basements & Tunnels
- Cellar walls
- Silos

### Physical Properties\*

Property	Typical Results
Appearance	Grey or white
Bond strength	>5 MPa – 28 days
Tensile Strength	>2 MPa – 28 days
Compressive strength	>24 MPa – 28 days
Bulk density	1.3 +/-0.1
Pot life	30 min at 24°C
Recoat time	8-24 hrs, depending on ambient conditions
*The above properties are average laboratory values	

### Standards Compliance

BS 6920

### Packing

**Tek-Prufe CW** is available in 25 kg bag.

### Theoretical Coverage

2 - 3 kg / m<sup>2</sup> depending upon the areas of application.

### Shelf Life

12 months when stored in factory packed unopened bag in a cool dry and elevated place away from direct sunlight excess humidity and at a temperature not more than 35°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. Waterproof coatings should only be applied by experienced application team.

### 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. Any blow holes or cracks should be filled with **Tek-Crete FR** repair mortar. All construction and expansion movement joints should be continued through the coating using an appropriate joint detail system.

The substrate must be primed using clean water to achieve a saturated surface dry prior to application.

### Mixing

**Tek-Prufe CW** is single component consisting of powder, mix one 25 kg bag into 6 to 7 liters of clean water using with low speed drill (300-500 rpm) with mixing paddle. Mix approximately for 3 minutes to achieve lump-free consistency.

On shuttered concrete or smooth surface, the surface may be mechanically hardened or a latex bonding agent could be added on basis of 1.5 liter per 25 kg bag.

Do not mix more material that can be safely used in 30 minutes at 25°C at 50% Relative Humidity. If the mixed product thickens, re-mix to reduce consistency. Do not add additional water.

## Application

**Tek-Prufe CW** may be applied as a slurry coat using soft bristle brush, broom or trowel at the rate of 0.75 to 1.5 kg per m<sup>2</sup> depending upon the areas of application. A glass fiber mesh should be embedded upon applying the first coat on the corner and pipe penetrations on a 10 x 10 basis. Allow a drying time of 8 to 24 hours according to ambient conditions. Dampen the first coat prior to application of the second coat and apply the second crosswise at the rate of 1 -1.5 kg / m<sup>2</sup>

## Curing

**Tek-Prufe CW** applied surfaces must be kept moist for a minimum period of 48 hours to allow the crystals to form. Soon after initial setting, fog spray the coated surfaces 3 to 4 times daily for minimum 48 hours period to moist the surfaces. In hot climate, it is recommended to spray water more frequently to keep the coated surfaces constantly kept moist. All the treated surfaces should be protected from foot traffic for 48 hours and 7 days for heavy traffic.

## Precautions

Do not add additional water.

Ensure the temperature of the mortar does not exceed 35°C at the time of mixing.

Do not mix by hand.

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.

Ensure the container is available for the medical attendant to examine for any relevant instructions and content details. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling.

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