



Technical Data Sheet

Description

Tek-Prufe PUF is a two component, solvent free, polyurethane based waterproofing membrane with crack bridging capability. As it is very reactive, it can only be applied with a special spray equipment.

Advantages

- High mechanical strength
- Quick application and curing
- Excellent adhesion to substrate
- Low risk of blistering owing to water vapor permeability
- Crack bridging properties
- Solvent free
- Resistance to standing water
- Can adhere to many substrates with the right primer
- Can be applied to both horizontal and vertical surfaces.

Uses

Tek-Prufe PUF is used in the following application areas

- Roofs, terraces and terrace gardens
- Tunnels
- Aircraft hangers
- Collecting tanks
- Channels
- Warehouses
- Pools
- Underground water tanks

Technical Data*

Property	Typical Results
Color	Grey
Mixing ratio	1:1 by volume
Density	1.05 (Part A) & 1.10 (Part B)
Tensile Strength (DIN 53504)	8 MPa
Tear Strength (DIN 53504)	16 MPa
Breaking Elongation	400 %
Gel Time	18 seconds
Substrate temperature	10 – 30 degree C
Shore A Hardness	80
*The above properties are average laboratory values	

Packing

Tek-Prufe PUF is available in 20 liter pack.

Theoretical Coverage

1.8 – 2.2 kg/m². In certain conditions, the coverage may increase up to 4.0 kg/m²

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%.

The surface on which **Tek-Prufe PUF** is to be applied is to be primed with a appropriate primer. It should be applied on the primed surface which has been maintained for coating , within the recoating interval.

Asphalt should be cleaned by high pressure water jetting. The surface should be shot blasted so that at least 60% of the surface aggregates are exposed.

For plywood, all joints should be flushed and taped.

For iron and steel, the surface should be sand blasted to SA 2.5 profile prior to application of primer.

Application

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

Apply as a single coat, wet film thickness of around 1.5mm, by brush, squeegee, phenolic core roller or airless spray. Additional coats are not normally required. If the recoat time is exceeded, the base coat must be mechanically abraded, cleaned with acetone and allowed to dry before applying additional coats. Once the product has cured, carry out a water flood test to check for leaks.

Cleaning

It is strongly recommended to clean the working tools by using suitable PU cleaning solvent. Cured **Tek-Prufe PUF** can be removed mechanically only.

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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