

## BT – SPE Filler compound

### Product description:

filled, 2-component epoxy resin filler compound for critical substrates.

### Product Characteristics:

Rigid, high mechanical resistance, resilient to water infiltration, weathering resistant, frost proof, resistant to saponification. Resilient to slurry, liquid manure, silage effluent and sewage. Not affected by exposure to alkaline solutions as well as diluted mineral and organic acids.

### Applications:

As surface coating for repairs and refurbishment in permanently wet areas, channels and ducts, sewage plants, shafts and ducts, industrial acid and corrosion protection applications etc. For the filling and patching up of cracks and defects occurring in mineral and metal substrates exposed to chemical media such as sewage, silage effluent, liquid manure, slurry, silo seepage etc.

### Basic requirements:

The substrate must be clean, firm and free from rust as well as oil and grease residues. Processing temperature min. +10 °C.

### Instructions for use:

Prior to use the packaging container has to be brought to room temperature (+ 20 °C). The A and B components have to be thoroughly mixed for approx. 2 minutes using a slow speed mechanical mixer.

***It is essential to avoid the formation of air bubbles due to the mixer running at excessive speed.***

In case of partial use of the material the following volume mixing ratio must be strictly complied with:

**4 parts by weight A : 1 part by weight B**

Pot life at 20 °C

approx. 1.5 hours

Pot life at 30 °C

approx. 25 minutes

Resistant to loads

after approx. 12 hours

(depending on temperature)

**Yield / coverage:** Approx. 1.2 kg / m<sup>2</sup> at 1mm coating thickness

at least 3 mm layer thickness for oil and grease separators  
(no biogenic gases); one-off coating

at least 6 mm layer thickness at maximum load

(biogenic gases etc.); two-time coating

<b>Technical data:</b>	Mixing ratio A : B	4 : 1 according to weight
	Shear strength *	approx. 10 N/mm <sup>2</sup>
	Tensile strength*	≥ 2 N/mm <sup>2</sup>
	Compressive strength*:	approx. 60 N/mm <sup>2</sup> (acc. to DIN 53454)
	Specific gravity of mixture:	1.80 g / ml
	Heat resistance:	up to approx. +94 °C
	* = measured in terms of steel / steel bonding properties	

**Colour / unit size:** Grey / 5 kg plastics bucket incl. hardener component

**Storage:**

12 months shelf life if stored in the original container and in dry conditions.

The material is not susceptible to the effects of frost. Prior to usage the material should be brought to room temperature (20 °C).

**Cleaning:**

Uncured epoxy resin soiling of tools can be removed using water.

Once cured the filler material can be removed only mechanically.

**Safety precautions:**

The product may cause sensitisation by skin contact. Upon contact with skin wash immediately using plenty of water and soap. Suitable protective gloves and safety goggles should be worn while handling the product.

**Test certificates / test reports:**

- DIN EN 12004 (R2T)
- DIN EN 12390-8; 50 metres waterproof
- DWA-M143-17; sulphate resistance
- DIN EN 295-37; abrasion resistance
- DIN EN 479; thermal stability
- DIN EN 1542; tensile bond strength for concrete and masonry applications
- Resilience to osmosis in case of reverse moisture penetration
- Testing for resilience to slurry, liquid manure and silage effluent (JGS) in accordance with the certification guidelines and approval criteria of the Deutsches Institut für Bautechnik Berlin
- Test programme for use in surface coating applications for the refurbishment of sewer and main drain manholes and inspection chambers
- For use in separator systems for light liquids (e.g. oil and petrol) in terms of chemical resistance to test media according DIN EN 858-1 (Feb. 2005; separator systems for light liquids, e.g. oil and petrol) and DIN 1999-101 (additional requirements for separator systems according to DIN EN 858-1, DIN 858-2 and DIN 1999-100 for light liquids with partial biodiesel and/or fatty acid methyl ester content (FAME))
- Testing of chemical resistance for interior surface applications according to DIN EN 858-1 and DIN 1999-101 with ethanol test media
- DIN EN 196-1; flexural and compressive strength
- DIN 52450; shrinkage and expansion
- Chemical resistance (pH 0-14 and sanitary cleaners)
- Impact strength

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