



## BT Universal Adhesive

### Product Description

Epoxy-based two-pack adhesive stopper for critical substrates.

### Properties

Rigid, ageing resistant, frost-proof, saponification-resistant heavy-duty material to withstand high mechanical stresses and creep-corrosion caused by water. Also chemically resistant to alkaline solutions and diluted mineral or organic acids.

### Range of Application

To be used for repair and reconstruction work in permanent-wet areas, ducts, for shaft renovation in acid-proof industrial installations, etc. For smoothing and/or joining complicated substrates such as mineral-to-metal and/or steel-to-steel, etc.

### Minimum Requirements

Substrates to be clean, solid, derusted and free from any traces of oil or grease.  
Processing temperature to be +10°C or higher.

### Application

Bring packing container up to room temperature (+20°C) before you commence processing.  
Thoroughly mix components A and B for approx. 2 minutes using a slowly rotating stirring machine.  
In any case, avoid creation of air bubbles by fast-rotating stirring machines.  
For part quantities, make sure the following mixture ratio is maintained:

4 parts by weight of A and 1 part by weight of B

Pot life at 20°C approx. 1.5 hours

Pot life at 30°C approx. 25 minutes

Able to withstand mechanical loads after approx. 12 hours (depending on actual temperature)

**Consumption** approx. 1.5 kgs per litre of hollow space to be filled

### Technical data

Mixture ratio A:B:	4:1 (by weight)
Shearing strength:*	approx. 10 N/mm <sup>2</sup>
Adhesive pull strength:*	approx. 15 N/mm <sup>2</sup>
Compressive strength:*	approx. 60N/mm <sup>2</sup> (acc. to DIN 53454)
Specific gravity of mixture:	1.80 g/ml
Heat stability:	approx. +80°C

\* measured at steel-to-steel bonding

**Colour / size of packing container**    grey / 5-kg plastic can, incl. hardening agent

### **Storage requirements**

6 months in original packing container stored in a dry place. The material is not sensitive to frost, however, it should be brought up to room temperature (+20°C) before commencing working with that material.

### **Cleaning**

Soiled tools can be cleaned with water as long as the material is still soft.  
Once the material has hardened, use mechanical means to remove the material.

### **Safety precautions**

Possible sensitization after skin contact. In case of skin contact, immediately wash with plenty of water and soap. Wear appropriate safety gloves and eye protectors when working with that material.

The following examination reports / test certificates on BT Universal Adhesive are available:

- Test of the resistance to slurry, liquid manure and silage effluents
- Examination of the adhesion achieved when glueing pieces of hardened concrete together
- Test of waterproofness up to 5bar
- Test of sulphate resistance
- Chemical resistance at pH values ranging from 2 to 12 (10% sulphuric acid (pH 2) and 1% soda lye (pH 12))
- Adhesive pull strength achieved on concrete and brickwork
- Abrasion resistance
- Resistance to impact stress
- Osmosis resistance in case of rear penetration of moisture
- Temperature stability at 93°C

With our technical application recommendations, oral or written, we wish to advise the purchaser/user according to the best of our knowledge based on our tests and practical experiences; however, they can only serve as general information without any promise regarding properties as we have no influence on the work site conditions and the performance of the work. Advice and the supply of information neither establish a legal relationship nor constitute any ancillary obligation from the purchase contract. For industrial production, we recommend always performing sufficient tests. We guarantee the proper, consistent quality of our products. In other matters, our sales and delivery conditions apply.