

## BT – SPM Expanding Mortar fast

Fast, fibre-reinforced repair mortar

**Shrinkage compensating, very fast-hardening repair mortar for chip-offs up to a depth of 100 mm. With a very high early and final strength.**

### Fields of application

**BT – SPM Expanding Mortar fast** is a repair mortar used to fill chip-offs and imperfections in cement plaster, pre-fabricated concrete parts, masonry, etc. Due to its shrinkage-free curing and its high stability, **BT – SPM Expanding Mortar fast** can be applied in one work step with a layer depth of 5 to 100 mm.

### Properties

**BT – SPM Expanding Mortar fast** is a slightly expanding, artificial fibre-reinforced, cement-based, factory-mixed dry mortar (mortar class M30 as per DIN EN 998-2). The non-slump mortar which adheres well to the substrate, cures without shrinking within a short time and, after setting, it will be highly loadable, water-proof, as well as resistant to frost and de-icing salt.

Fire class A1 according to DIN 4102/EN 13501-1. Suitable for slush grouting for fire protection

### Technical data

Colour:	grey
Max. grain size:	approx. 2 mm
Processing temperature:	+ 5 to + 30 °C
Processing time:	approx. 15 minutes
Can be walked on (at 20°C):	after 6 hours
Can be reworked (at 20°C):	after 2 days
Initial hardening (at 20°C):	after approx. 40 minutes
Amount of water required for mixing:	approx. 4.0 – max. 4,3 l per 25-kg bag
Expansion (28 d):	approx. 0.1 mm/m
Bending tension strength (28 d):	approx. 7 N/mm <sup>2</sup>
Pressure resistance (28 d):	approx. 40 N/mm <sup>2</sup>

### Preparing the substrate

The mineral substrate must be absorbent, rigid, and stable. The substrate must be free from plaster, bitumen, grease and oil, dust, paint, and any separating layers. Cement adhesive screeds, lime and binder coats must be milled off or sand blasted. The substrate to be coated has to be fully pre-wetted, or well moistened. It has to be pre-wetted early enough in a way that the surface is dull-wet when processed. Stagnant water must be removed from the subgrade to be coated.

### Processing

**BT – SPM Expanding Mortar fast** is mixed with water and tempered with a suitable mixer (paddle mixer or similar) to become plastic. After a maturing time of about 1 minute, mix **BT – SPM Expanding Mortar fast** well again (without added water) until it shows a plastic consistency. It is strictly required to meet the mixing ratio. For comparison: Well mixed **BT – SPM Expanding Mortar fast** is a bit "drier" than masonry mortar. The specified pot life can only be reached through repeated mixing. **BT – SPM Expanding Mortar fast** can be processed with a spatula, a trowel, or a suitable machine.

All specified values have been determined at +20°C. The specified times are shorter with higher temperatures; at lower temperatures, they will be longer. When filling the chip-offs and imperfections in thicker layers on vertical surfaces, it is required to rough-cast some **BT – SPM Expanding Mortar fast** and to rub it into the dull-wet subgrade before the whole required layer thickness is applied.

### Hints for subsequent works

Protect the applied **BT – SPM Expanding Mortar fast** from premature drying out during the curing time. Protect it from rain, and also from strong sun radiation, and especially from frost, at least for 24 hours.

**Consumption:** approx. 1.7 kg per liter of hollow space.  
**Cleaning of tools:** tools and dirty spots must be cleaned with water immediately after use.

**Storage:** Store in a cool and dry place. Shelf life is approx. 12 months in the original packaging.

**Packaging:** 25-kg-bag, 42 bags per pallet

### Health and safety at work:

It contains cement and reacts alkaline with water. It may irritate the skin and eyes.

Please observe the hazard notes and safety advice on the containers and in the safety data sheets. .

### Notes:

GISCODE ZP 1 – low chromate concentration as per EU-VO 1907/2006 (REACH).

The substrate on which the **BT – SPM Expanding Mortar fast** is applied should have at least a concrete quality of B15.

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