

## F9000

### Properties:

*F9000* is a mineral-based, one-component injection glue based on cement, trass and quartz powder.

*F9000* is used for injection into dry and damp cracks of greater than 0.2 mm in concrete, brickwork and natural stone as well as for filling hollow cavities.

*F9000* is suitable for force-transmittig injection of cracks in concrete structures.

### Technical data:

#### Substance data:

Consistency	solid	
Colour	grey	
Odour	odourless	
Density	approx. 1.79 g/cm <sup>3</sup>	
pH value	11 - 13.5	DIN EN ISO 10523
Mixing ratio	2.5 : 1 (F9000 : water)	parts by weight
Processing temperature	5 - 30°C	substrate temperature

#### Reaction data (at 20°C):

Pot-life approx. 30 - 45 min

#### Hardened mortar properties:

Bond strength at concrete	> 1.5 N/mm <sup>2</sup>	DIN EN 1542
Compressive strength	37.5 N/mm <sup>2</sup>	DIN EN 12390-3
Bending tensile strength	2.8 N/mm <sup>2</sup>	DIN EN 12390-5

### Processing:

*F9000* (20 kg bag) is being mixed with 7-8 liters of clear water for at least 4 minutes by means of a plate or colloidal mixer at 2000-6000 r/min until a homogeneous mixture is reached. This mixture needs to be mixed all time during processing.

Afterwards the material gets injected at low pressure with a single component pump, e.g. a suitable spiral pump.

During processing and at least 72 hours afterwards the temperature should not fall below +5°C.

After curing *F9000* becomes a rigid injection material and can be therefore not being used for cracks or expansion joints.

### Safety information:

*F9000* contains cement and is classified as hazardous according to Regulation (EC) 1272/2008 (CLP).

It is therefore necessary, before beginning processing, to become familiar with the precautions and safety advice as indicated in the material safety data sheet.

**Packaging:**

20 kg paper bag

50 x 20 kg on pallet

**Storage:**

Shelf life at least 6 month in original packaging when stored in dry conditions between 15-25°C, protected from heat, frost and direct sunlight.

After the expiration the use of the product is generally not recommended, unless an approval has been provided by TPH. This approval can only be obtained by the quality assurance department of TPH releasing the material after verification of main properties being within specification.

**Disposal:**

Small quantities of cured product residues can be disposed of as normal domestic waste. Dispose of not cured product components must be effected in accordance with the corresponding local regulations. For further information please refer to the material safety data sheets.

**Legal notice:**

The correct and thus successful application of our products is not subject to our control. A guarantee can be issued for the quality of our products within the framework of our sales and supply conditions, however not for successful processing. All data and specifications in this specification sheet are based on the present state of the art and the right to changes and adaptations for the sake of development remains explicitly reserved. The consumption specifications designated by us can be only average empirical values, where deviations are possible on an individual basis and therefore cannot be excluded by us.

**TPH Bausysteme GmbH**  
Nordportbogen 8  
**D-22848 Norderstedt**

Tel.: +49 (0)40 / 52 90 66 78-0  
Fax: +49 (0)40 / 52 90 66 78-78  
e-mail [info@tph-bausysteme.com](mailto:info@tph-bausysteme.com)  
Web [www.tph-bausysteme.com](http://www.tph-bausysteme.com)

