

## F8000

### Properties:

*F8000* is a mineral, one-component injection product based on fine cement.

*F8000* is suitable for the injection of cracks from 0.2 mm upwards, for filling of voids and for the stabilization of concrete and brickwork.

*F8000* can be used for single or multiple grouting of the *VPRESS* and *ECOPRESS* injection hoses.

*F8000* is a one-component cement and does not have to be mixed with a colloidal mixer, in contrast to comparable cement suspensions.

### Technical Data:

#### Substance data:

Consistency	solid, powder	
Colour	grey	
Odour	odourless	
Bulk density	approx. 700 g/l	
Maximum particle size $d_{95}$	$\leq 16 \mu\text{m}$	
pH value	11 - 13.5	DIN EN ISO 10523
Mixing ratio	2 : 1 (F8000 : water)	parts by weight
Wet density	approx. 1.87 g/cm <sup>3</sup>	at 2 : 1 - mixture
Processing temperature	5 - 30°C	substrate temperature

#### Reaction data (at 20°C):

Pot-life	approx. 60 min
Start of setting	approx. 6 h
End of setting	approx. 9 h
Final curing	approx. 28 d

#### Hardened mortar properties:

Bond strength at concrete	$> 1,5 \text{ N/mm}^2$	DIN EN 1542
E-modulus	approx. 15300 N/mm <sup>2</sup>	
Compressive strength		
after 3 days	approx. 25 N/mm <sup>2</sup>	DIN EN 12190
after 7 days	approx. 34 N/mm <sup>2</sup>	DIN EN 12190
after 28 days	approx. 40 N/mm <sup>2</sup>	DIN EN 12190

### Processing:

*F8000* is homogenously mixed (mixing ratio 2 : 1) with clean water for at least 4 minutes with a dissolving agitator (e.g. power drill with dissolving agitator attachment) at 1500 rpm.

25 kg of dry *F8000* yields about 22 litres of ready-to-use cement suspension

A colloidal mixer, as generally used for two-component micro fine-cements, is not required for mixing.

The material is then injected in low pressure operation with a 1-component injection pump, e.g. a spiral pump.

The subsurface and material temperature must not fall below +5°C during processing and after 72 hours after processing.

*F8000* is an injection product that reacts rigidly and can therefore not be used for the grouting of moving cracks or expansion joints.

**Safety information:**

*F8000* 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:**

25 kg bag

Bigger packaging on request.

**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.

**Test certificates:**

Application test of multi-injectable injection hose *VPRESS* with cement suspension *F8000* and acrylate gel *RUBBERTITE / POLINIT*; MFPA Leipzig 2009

Injectability test of a 30 m long segment of the single-channel, multi-injectable injection hose *VPRESS* with cement suspension, acrylate gel and polyurethane resin; MFPA Leipzig 2010

Examination according to TrinkwV 2012 and Coatings Guideline; görtler analytical services gmbH Vaterstetten 2020

**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.

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