

**SOFT ROCK MINING / HARD ROCK MINING**

**FB200**

**LOW VISCOSITY, HIGH OUTPUT PUMPABLE GROUT**

**DESCRIPTION**

FB200 pumpable grout is supplied as a ready to use free flowing blended cementitious powder. It requires only the addition of water in a suitable placing machine.

**APPLICATION AND USES**

- Recovery of falls – consolidation of broken strata
- Backfilling – consolidation of mullock
- Pumpable chocks – pillar recovery
- Explosion resistant ventilation seals

**ADVANTAGES**

- High volume with a typical output of 15-22 x 20 kg bags per m<sup>3</sup>, reducing transportation requirements underground
- Yields to ground pressure reducing stress concentration in strata
- Rapid placement with up to 10 m<sup>3</sup> placed in one hour, reducing labour requirements
- Fast set, minimises hydrostatic pressure, enabling chocks to be pumped without additional support in one shot
- Rapid strength gain ensures early support.
- Non-shrinking ensures good contact with roof.
- Remote pumping, can be pumped from a safe location up to 200 m from job site
- Low alkalinity, safe to handle



**TECHNICAL DATA**

Several factors will affect gel time, strength development, set time and pumping life of the material. These are water content and temperature, water quality, ambient temperature, pumping rate, discharge hose capacity and mass of product placed.

**Typical properties using potable water:**

<b>Water: Powder Ratio</b>	2:1	2.5:1
<b>Gel time @ 20°C (mins)</b>	4-8	8-11
<b>Age</b>	<b>UCS (MPa)</b>	
1 day	0.6	0.5
7 days	3.3	1.4
28 days	7.5	4.5
<b>Fresh Wet Density (kg/m<sup>3</sup>)</b>	1250	1210
<b>Maximum Pump Distance</b>	200m	

## APPLICATION METHOD

### Mixing

FB200 is designed to be used at a water: powder ratio between 2 and 2.5:1.

- It is essential that the material be used in conjunction with a special purpose placer machine
- When pumping chocks, special purpose bags should be used.
- These bags are suspended from the roof with lightweight mechanical jacks. It is highly recommended that operators receive full training from Minova.

### Cleaning

All pumps and hoses should be thoroughly cleaned with water after use.

## SAFETY INSTRUCTIONS AND LIMITATIONS

Volume output is variable. At the recommended consistency the approximate grout yield is as follows:

Water: Powder Ratio	20 kg bags / m <sup>3</sup>
2.5:1	18
2:1	21

## PACKAGING AND TRANSPORTATION

FB200 is supplied in 20 kg bags or 1.2 T bulk bags. All 20 kg bags are packed on stretch wrapped wooden pallets, 60 bags per pallet.

## STORAGE AND SHELF LIFE

FB200 has a shelf life of 12 months.

## STORAGE CONDITIONS

FB200 should be stored in original packing under dry warehouse conditions.

## HEALTH AND SAFETY

FB200 is non-toxic and non-flammable. For more information please refer to the Safety Data sheet at [www.minovaglobal.com](http://www.minovaglobal.com)

## TECHNICAL SUPPORT

We provide technical advisory service by a team of specialists in the field. The service includes on site assistance and advice on evaluation trials and laboratory work.

## MANUFACTURER

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An ISO 9001:2015 Quality Management  
Certificated Company



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## **CUSTOMER SERVICE**

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