

MINING

Capcem™ PCB

PUMPABLE ANCHORING GROUT FOR PRIMARY SUPPORT

DESCRIPTION

Capcem™ PCB Fast is a single component cementitious powder that is activated with water. The liquid grout is intended for placement in holes through a suitable grout pump. It is supplied in lined, woven polypropylene bulk bags or as encapsulated grout in water permeable skins.



APPLICATION AND USE

Capcem™ PCB Fast is a pumpable grout for pre-grouted installation of cable anchors.

ADVANTAGES

- Cement based: no resins or solvents
- Working time from mixing to insertion of cable anchor: minimum 40 minutes, mixing water at 25°C
- Pumpable into up-holes at least 6 m long
- Thixotropic: no slump or run-out
- Rapid strength gain after placement – safe re-entry within same shift
- No shrinkage or bleed water
- High pH inhibits corrosion

TECHNICAL DATA

SETTING PROPERTIES

Details	Value	Unit
Relative Density (RD)	1900	kg/m ³
Initial Set (25°C)	40	Minutes
Final Set (25°C)	100	Minutes

COMPRESSIVE STRENGTH (TYPICAL)

Curing Age	Strength
4 hours	5 MPa (minimum)
24 hours	7 MPa (minimum)

PULL STRENGTH OF 200 MM BOND LENGTH X 16MM REBAR

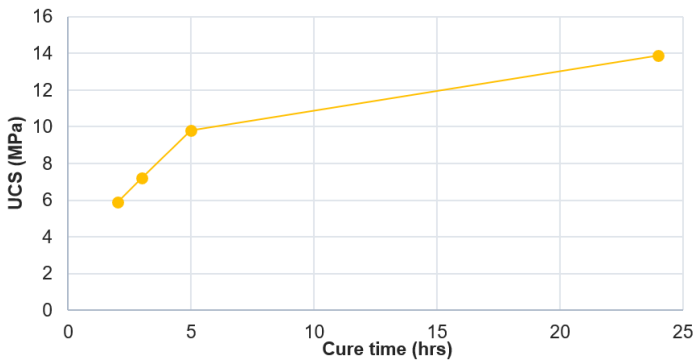
Curing Age	Pull Strength
4 Hours	5 tons (minimum)
24 Hours	10 tons (minimum)

PULL STRENGTH OF 800 MM BOND LENGTH X 15.2 MM BULBED CABLE

Curing Age	Pull Strength
4 Hours	20 tons (minimum)

Pack Sizes (kgs)	Mix Water (litres)	Yield (litres)
10	2	6
25	5	15
4 capsules of 2kg each per bag	-	4.8

Capcem PCB Strength Growth



APPLICATION METHODS

BULK GROUT

Prepare only enough grout to use within 40 minutes. Place one 25 kg bag of Capcem PCB Fast grout in a grout mixer and add 5 litres of water. For other quantities, add water in the ratio of 2 litres of water for every 10 kg of powder. Mix thoroughly for at least 3 minutes, until smooth and free from lumps. Transfer to a grout pump. Agitate periodically to re-liquify but do not add more water. Use within 40 minutes.

If more grout is required, wash out the mixer and pump before preparing a fresh batch.

After completion of grouting, flush out the mixer, pump and all hoses and fittings thoroughly with water. Remove sticking grout mechanically and continue flushing until the flushing water is clear.

ENCAPSULATED GROUT

Remove the capsules from the outer bag. Place the capsules in water, ensuring that they are completely covered. Allow the capsules to soak until there are no further bubbles (minimum of 3 minutes).

Remove the capsules individually from the water. Break open the skins and squeeze the liquid grout into the grout pump. Use within 40 minutes.

After completion of grouting, flush out the pump and all hoses and fittings thoroughly with water. Remove sticking grout mechanically and continue flushing until the flushing water is clear

SAFETY INSTRUCTIONS AND LIMITATIONS

Capcem™ PCB Fast is non-toxic but is alkaline in nature; gloves and eye protection should be worn. Splashes of grout to the skin or eyes should be washed off with clean water. In the event of prolonged irritation seek medical advice. Refer to Material Safety Data Sheet.

PACKAGING AND TRANSPORTATION

Packaged in bags, on pallets. Each pallet is shrink-wrapped to protect the product against damage.

STORAGE AND SHELF LIFE

Capcem™ PCB Fast has a shelf life of 12 months when stored unopened in dry conditions and out of direct sunlight to prevent degradation of packaging.

DISPOSAL

Follow local regulations.

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ADDITIONAL DOCUMENTATION

- MSDS of Capcem™ grout products

LIST OF REPRESENTATIVES

- AUSTRIA: Minova MAI GmbH
- CZECH REPUBLIC: Minova Bohemia s.r.o.
- FRANCE / BELGIUM: Sales office Minova France / Belgium
- GERMANY: Minova CarboTech GmbH
- ITALY: Minova CarboTech GmbH Italy branch
- KAZAKHSTAN: Minova Kazakhstan LLP
- POLAND: Minova Ekochem S.A.; Minova Arnall Sp. z o.o.; Minova Ksante Sp. z o.o.
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CUSTOMER SERVICE

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