

**MINING / CONSTRUCTION**

**Capcem™ PLG-FSL**

**PUMPABLE CEMENT GROUT**

**DESCRIPTION**

Capcem™ PLG-FSL is supplied in 10 kg or 25 kg lined, woven polypropylene bag. It is a single component powder that is mixed with water. The mixed grout is intended for placement through a suitable grout pump.

**APPLICATION AND USE**

Capcem™ PLG-FSL is a pumpable grout for use in the installation of mechanical long-anchors.

**ADVANTAGES**

- Cement based: no resins or solvents
- Pump life of minimum 3 hours, mixing water at 25°C
- Pumpable up to 15 metres
- No shrinkage or bleed water
- No grout run-out
- High pH inhibits corrosion



**TECHNICAL DATA**

**WATER/CEMENT MIX PROPERTIES**

Pack size	10 Kg		25 Kg	
w/p:	0.40	0.34	0.40	
Mix water (litres)	4.0	8.5	10.0	
Yield (litres)	7.3	16.6	18.4	
Relative density (RD)	1.90	2.02	1.90	
Initial set (hours)	4	3-4	4	
Final set (hours)	5-6	4-6	5-6	

## COMPRESSIVE STRENGTH (TYPICAL)

Curing Age	Strength
24 Hours	8 MPa
7 Days	15 MPa
28 Days	32 MPa

## PULL STRENGTH (TYPICAL)

200mm bond length x 16mm Rebar (w/p=0.4)

Curing Age	Strength
24 Hours	1.8 tons (minimum)
48 Hours	3.5 tons (minimum)
7 Days	5.0 tons (minimum)

## APPLICATION METHOD

One bag of Capcem™ PLG-FSL is added to the mix water, as tabulated, in a suitable mixing / pumping vessel and mixed thoroughly for 3 minutes. Water temperature should preferably be between 20°C and 30°C.

The grout is then pumped into the drilled hole before or after installation of the anchor, to give full column filling. Use the delivery line to fill from the back of the drilled hole forwards or use an air-release bleed line system if filling from the front of the hole.

Pack Sizes (kgs)	Mix Water (litres)	Yield (litres)
25	10	18.4
10	4	7.3

## SAFETY INSTRUCTIONS AND LIMITATIONS

Capcem™ PLG-FSL 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 splashes in the eyes or prolonged irritation seek medical advice. Refer to Material Safety Data Sheet.

## PACKAGING AND TRANSPORTATION

Packaged in 10 kg or 25 kg bags, 40 or 100 bags per pallet. Each pallet is shrink wrapped to protect the product against damage.

## STORAGE AND SHELF LIFE

Capcem™ PLG-FSL 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™ PLG-FSL

## LIST OF REPRESENTATIVES

- AUSTRIA: Minova MAI GmbH
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- 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.
- RUSSIA: ZAO "Carbo-ZAKK"
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