

**SOFT ROCK MINING / HARD ROCK MINING**

**CMT GROUT**

**HIGH YIELD PUMPABLE CHOCK GROUT**

**DESCRIPTION**

CMT high yield pumpable chock grout is supplied as a ready to use free flowing blended cementitious powder. It requires only the addition of water in a suitable grout mixer/pump.

**APPLICATION AND USES**

- Standing supports (chock bags)
- Backfill
- Cavity filling

**ADVANTAGES**

- High volume output; Depending on strength requirements, between 3.5 and 6.5 20 kg bags are required to fill a standard 300mm x 2300 mm prop
- Rapid placement; Can be placed through conventional grout mixers and pumps
- Fast set and rapid strength gain; Ensures early support
- Yields to ground pressure; Reducing stress concentration in strata
- Non-shrinking, unlike timber cribs
- Low alkalinity; Safe to handle

**TECHNICAL DATA**

Several factors will affect gel time, strength development, set time and pumping life of the material. These include 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	1.5:1	1:1
<b>Gel time @ 20°C (mins)</b>	12-15	9-11	4-7
<b>Age</b>	<b>UCS (MPa)</b>		
1 day	4.0	6.0	10.0
7 days	5.0	8.0	14.0
28 days	7.0	12.5	18.0
<b>Fresh Wet Density (kg/m<sup>3</sup>)</b>	1260	1340	1470

**APPLICATION METHOD**

**Preparation**

1. Clear floor of loose material
2. CMT props placed in position and mechanically tensioned to the roof
3. The props are now ready to be filled with CMT Grout.

**Mixing**

Depending on strength requirements, the CMT Grout is designed to be placed at a water: powder ratio between 2:1 and 1:1.

**Water requirements/20 kg bags:**

Water: Powder Ratio	Liters of water required
2.0:1	40L
1.5:1	30L
1.0:1	20L

1. Fill mixer with water.
2. Start mixer, then slowly add CMT Grout powder.
3. If powder addition is too fast, large lumps will form.
4. Mix for 1-2 minutes until lump free.
5. Use a high shear mechanical mixer of approved design.

**Placing**

1. Ensure grout is continuously agitated all the time.
2. Start pumping.
3. When grout appears, stop pumping, connect pumping line to CMT prop and recommence pumping.
4. Do not attempt to mix more grout whilst pumping is in progress. If more grout is required to fill prop, mixing should only recommence when mixing bowl is empty. As soon as grout appears from the breather holes at the top of the prop, cease pumping.

**Cleaning**

CMT Grout should be removed from tools and equipment immediately after use with clean water. Any hard material should be mechanically removed.

**SAFETY INSTRUCTIONS AND LIMITATIONS**

At the recommended consistency, the approximate grout yield is as follows:

Water: Powder Ratio	20 kg bags / m <sup>3</sup>
2:1	21
1.5:1	27
1:1	37

**PACKAGING AND TRANSPORTATION**

CMT Grout 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**

CMT Grout has a shelf life of 12 months.

**STORAGE CONDITIONS**

Material should be stored in original packing under dry warehouse conditions. High temperature and high humidity may reduce the shelf life.

**HEALTH AND SAFETY**

For more information please refer to the Safety Data sheet at [www.minovaglobal.com/apac](http://www.minovaglobal.com/apac).

**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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