

SOFT ROCK MINING / HARD ROCK MINING

CONBEX® HT

RAPID STRENGTH, THIXOTROPIC GROUT WITH LONG POT LIFE

DESCRIPTION

Conbex® HT is supplied as a ready to use, free flowing, blended cementitious powder with rapid strength properties for top down grouting. It requires only the addition of water in a high shear mixer to produce a free-flowing grout.



APPLICATION AND USES

Cable bolt grouting in underground and surface mine applications where rapid strength gain is a prerequisite. Ideal for use with automated cable bolting rigs in metalliferous mining.

ADVANTAGES

- Rapid strength gain reduces the likelihood of bed separation or slippage of strata
- Rapid strength gain reduces down-time before drilling/blasting can recommence
- Non-shrink, unique expansion system compensates for shrinkage
- Excellent pumpability
- Economical, high strength gain at significantly lower cost compared to resin grouts
- Durability, excellent in high saline and/or acidic ground water
- Long pot life for use with automated cable bolting rigs.

TECHNICAL DATA

Typical properties using potable water:

W:P ¹	2hrs	4hrs	6hrs	1 day	7 days	28 days
0.25:1	14	31	33	48	54	62
0.3:1	8	24	26	36	40	54

¹ Ratio of water to powder

Temp	Mixing Time (min)	Set time (min)
20°C	5	80
20°C	30	60
40°C	5	65
40°C	30	50
Fresh Water Density (kg/m ³):		2000 - 2200
Maximum Exotherm = 46°C		

APPLICATION METHOD

Preparation

1. Drill hole to desired depth, ensuring it is free and clear of loose matter for entire length.
2. Place cable bolt and grout filling tube into bolt hole. Alternatively, the hole can be pre-grouted, and then the cable inserted.
3. Flush the hole out by pumping water up the grout filler tube. This also helps to prevent water being drawn from the mix.

Mixing

It is very important to continually mix Conbex HT as it will set rapidly once mixing is stopped.

Water requirements/20 kg bag:

Liters of water required
5-6L

- Fill mixer with water.
- Start mixer, and then slowly add Conbex HT powder.
- If powder addition is too fast, large lumps will form and final mix will be slow reaching uniformity. Mix until lump free.
- Use a high shear mechanical mixer of approved design.

Placing

Do not try to mix and place grout at the same time from a single mixer unit.

(a) Method 1

- Insert the bolt and grout filling tube into the bolt hole.
- Pump grout continuously until grout appears at the collar and then stop the pump.
- Grout should not continue to flow from the hole once pumping as stopped.

(b) Method 2

- Insert the grout filling hose to the back of the bolt hole and begin pumping grout.
- Retract the filling hose slowly to ensure that the hole is filled with grout.
- Insert the bolt into the grouted bolt hole.
- Grout should not continue to flow from the hole once the bolt installation has stopped.

Cleaning

Conbex HT should be removed from tools and equipment immediately after use with clean water. Cured material can be removed mechanically.

SAFETY INSTRUCTIONS AND LIMITATIONS

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

20 kg bags / m ³
75-80

PACKAGING AND TRANSPORTATION

Conbex HT is supplied in 20 kg bags. All bags are packed on stretch wrapped wooden pallets, 60 bags per pallet.

STORAGE AND SHELF LIFE

Conbex HT has a shelf life of 12 months.

STORAGE CONDITIONS

Conbex HT 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.

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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