

## **SOFT ROCK MINING / HARD ROCK MINING**

# **CONBEX® HT**

# **RAPID STRENGTH, THIXOTROPIC GROUT WITH LONG POT LIFE**

### DESCRIPTION

Conbex<sup>®</sup> 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:

<b>W:P</b> <sup>1</sup>	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

<sup>1</sup> Ratio of water to powder

Temp	Mixing Time (min)	Set time (min)
20ºC	5	80
20ºC	30	60
40°C	5	65
40°C	30	50
Fresh Water De	2000 - 2200	

Maximum Exotherm = 46°C



## **APPLICATION METHOD**

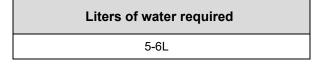
#### Preparation

- 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 pregrouted, 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:



- 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 appe ars 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<sup>3</sup>

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 <u>www.minovaglobal.com/apac</u>.

## **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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