

MINING

Conbex™ Backfill Binder

BINDER FOR MINE TAILINGS

DESCRIPTION

Conbex™ Backfill Binder is a blend of inorganic cementitious powders.

APPLICATION AND USE

Conbex™ Backfill Binder is a binder for milled mine tailings used in back-filling.

ADVANTAGES

- Formulated to perform in high water content tailings slurries
- Delayed setting reduces likelihood of blocking pipelines
- Superior strength development at lower cost than pure cement systems
- Extensively proven in use



TECHNICAL DATA

COMPRESSIVE STRENGTH

Typical rate of gain of compressive strength for an unclassified quartzitic backfill slurry having wet density of 1.75, with addition of 6% by mass of Conbex™:

Age (days)	Compressive strength (MPa)
1	0.1
7	0.4
28	1.2
56	1.5

RATE OF STRENGTH GAIN

The following properties of the tailings slurry will all affect the rate of strength gain:

- Wet density (solids content)
- pH
- Particle size distribution
- Dissolved chemicals
- Temperature

APPLICATION METHOD

The required percentage of Conbex™ must be determined by actual test, using the actual tailings and actual mine conditions. Typical additions are 5-8% to obtain 1.0MPa after 28 days.

Please consult the Minova Technical Department for advice on dosing and placement systems.

SAFETY INSTRUCTIONS AND LIMITATIONS

Conbex™ Backfill is alkaline. The use of gloves and goggles is recommended. Splashes must be removed from the skin and eyes by washing with plenty of clean water. In the case of splashes in the eyes, medical attention should be sought immediately. Refer to Material Safety Data Sheet.

PACKAGING AND TRANSPORTATION

Conbex™ Backfill is supplied in bulk by tanker.

STORAGE AND SHELF LIFE

Conbex™ Backfill has a shelf life of 12 months if stored in dry conditions.

DISPOSAL

Follow local regulations.

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ADDITIONAL DOCUMENTATION

- MSDS of Conbex™ Backfill Binder

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.
- RUSSIA: ZAO "Carbo-ZAKK"
- SLOVAKIA: Minova Bohemia s. r. o., organizačná zložka
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- APAC: Minova Australia Pty Ltd.
- AMERICAS: Minova USA Inc.

CUSTOMER SERVICE

For additional support options available at your area, contact our local offices.

www.minovaglobal.com