

SOFT ROCK MINING

TEKPAK® P

TWO PART, HIGH VOLUME PUMPABLE GROUT

DESCRIPTION

Tekpak® P is a two-component pumpable crib material with substantial benefits over alternative materials. Consisting of Tekcem® P and Tekbent®, when mixed they rapidly react to form a load bearing fill.

Tekcem® P is a blended cementitious powder which forms an easy to pump mix with water, remaining pumpable for 24 hours. Tekbent® is a non-combustible low viscosity non setting liquid with an indefinite pumping life.



APPLICATION AND USES

- Pumpable Crib Bags (PCB's) for underground coal mine secondary support

ADVANTAGES

- High early strength, with 50% of final strength achieved within 3 hours
- Rapid gel time reduces hydraulic pressure when filling allowing PCB's to be installed in one lift
- Rapid gel time enables complete pressurisation of the PCB to the roof, ensuring full contact with the strata
- Symmetrical, simple to use, two component system using basic mixing and pumping equipment
- Suitable for use with surface to seam applications of PCB's
- Long distance pumping, up to 4000 m
- Superior suspension agents improve pumpability and ensure consistency
- Non shrinking

TECHNICAL DATA

Typical properties using potable water:

Tekcem-Tekbent ratio	1:1
Gel time @ 20°C (s)	20
Fresh wet density (kg/m³)	1350
Age	UCS (MPa)
3 hours	5.8
1 day	8.2
7 days	9.1
28 days	11.4
Maximum Pumping distance	4000 m

Several factors will affect gel time, strength development, set time and pumping life of the material.

APPLICATION METHOD

Mixing and placing

- The two slurries (Tekcem® P and Tekbent®) can be prepared in any standard batch mixer.
- Approximately 3 minutes mixing under medium shear (ie paddle type mixer) is adequate for both components.
- The slurries are then pumped separately to the PCB where they are mixed just prior to entering the crib
- Using Minova's PCB bulk batching system allows rapid, cost effective mixing and placing of Tekpak® P for surface to seam applications.
- Do not allow Tekcem® P and Tekbent® to mix until just entering the PCB as the combined product sets in a few seconds

Cleaning

All equipment and pipelines should be thoroughly cleaned with water after use.

PACKAGING AND TRANSPORTATION

Tekcem® P is supplied in 20 kg bags or 1.2T bulk bags. All bags are packed on stretch wrapped wooden pallets, 60 bags per pallet.

Tekbent® is packaged in 1000L IBC's or supplied via bulk tankers.

STORAGE AND SHELF LIFE

Tekcem® P and Tekbent® have a shelf life of 12 months.

STORAGE CONDITIONS

Tekcem® P and Tekbent® should be stored in original packing under dry warehouse conditions.

HEALTH AND SAFETY

For more information please refer to the Safety Data sheet at <https://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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