

**SOFT ROCK MINING / HARD ROCK MINING**

**TEKPAK® P SYSTEM**

**TWO PART, HIGH VOLUME PUMPABLE GROUT SYSTEM**

**DESCRIPTION**

Tekpak® is a two-part system consisting of Tekcem® P and Tekbent® P. Tekcem is a non-combustible brown blended cement powder which forms an easy to pump slurry with water. Tekbent is a non-combustible low viscosity non setting liquid. Tekbent has indefinite pumping life and Tekcem is pumpable for at least 24 hours. Both components when mixed together rapidly react to produce a load bearing fill.



**APPLICATION AND USES**

- Replacement for timber chocks in longwall tailgates
- Recovery of falls in headings and intersections
- Backfilling behind steel sets

**ADVANTAGES**

- Symmetrical, simple to use, two component system using basic mixing and pumping equipment
- High volume with a typical output of 350 kg of powder per m<sup>3</sup>
- Long distance pumping, up to 4000 m
- 24 hour pumping life reducing time associated with flushing out and blockages of pipes
- Superior suspension agents improve pumpability and ensure consistency
- Non shrinking
- Low alkalinity, safe to handle
- Quick Tekpak Gel time- reduces hydraulic pressure in bag when filling.

**TECHNICAL DATA**

Several factors will affect gel time, strength development, set time and pumping life of the material. These are water content and temperature, water quality, ambient temperature, pumping rate, discharge hose capacity and mass of product placed.

Typical properties using potable water:

<b>Tekcem-Tekbent ratio</b>	1:1
<b>Gel time @ 20°C</b>	10 - 12
<b>Fresh wet density (kg/m<sup>3</sup>)</b>	1220
<b>Age</b>	<b>UCS (MPa)</b>
1 day	8.5
7 days	9.5
28 days	10.2
<b>Maximum Pumping distance</b>	4000 m

**APPLICATION METHOD**

**Mixing and placing**

- The two slurries (Tekcem 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 job site where they are mixed together via single pipe.

**Cleaning**

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

**SAFETY INSTRUCTIONS AND LIMITATIONS**

The volume output is variable. At the recommended consistency the approximate grout yield is as follows:

Tekbent-Tekcem ratio	kg powder / m <sup>3</sup>
1:1	350 kg
Tekbent	175 kg
Tekcem	175 kg

**PACKAGING AND TRANSPORTATION**

Tekcem is supplied in 20 kg bags. All bags are packed on stretch wrapped wooden pallets, 60 bags per pallet. Tekbent is packaged in 1000L IBC

**STORAGE AND SHELF LIFE**

Tekcem and Tekbent have a shelf life of 12 months.

**STORAGE CONDITIONS**

Tekcem 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 [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**

**Minova Australia Pty Ltd**

An ISO 9001:2015 Quality Management Certificated Company



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