

SOFT ROCK MINING

TEKPAK® S

TWO PART, HIGH VOLUME PUMPABLE GROUT

DESCRIPTION

Tekpak® S is a two-component grout useable for a range of applications. Supplied as two (Part A/Part B) ready to use blended cementitious powders, Tekpak® S requires only the addition of water. The slurries are mixed and pumped separately to the job site where they mix together.



APPLICATION AND USES

- Pumpable Crib Bags (PCB's) for underground coal mine secondary support
- Explosion rated ventilation seals
- Bulk fill applications

ADVANTAGES

- Long distance pumping, greater than 3000 m.
- Suitable for a large range of applications.
- Fast set and rapid strength gain ensure early support.
- Fast set time minimises hydrostatic pressure, allowing seals and large voids to be filled without additional formwork support.
- Symmetrical, simple to use, two component system using basic mixing and pumping equipment.
- Yields to ground pressure, reducing stress concentrations within strata.
- Non shrinking.
- Individual slurries remain pumpable for over 48 hours.

TECHNICAL DATA

Typical properties using potable water:

Water:Powder Ratio	1.5:1	1.75:1	2:1
Fresh wet density (kg/m³)	1330	1300	1250
Gel time @ 20°C (min)	4 - 5	5 - 6	8 - 12
Age	UCS (MPa)		
1 day	5	4	3
7 days	5	4	3
28 days	8.5	7	5.5

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

APPLICATION METHOD

Mixing and placing

- The two slurries are prepared separately in high shear mechanical mixers.
- Fill mixers with water then slowly add powder. Adding powder too quickly will cause large lumps to form
- Approximately 2 minutes mixing under medium shear is adequate for both components.
- Using two pairs of mixers with holding tanks allows for continuous batch mixing of the products.
- The slurries are then pumped separately to the application site where they are mixed immediately before discharge into the PCB or seal.

Cleaning

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

PACKAGING AND TRANSPORTATION

Tekpak® S Part A and Part B are supplied in 20 kg bags or 1.2T bulk bags.

All 20 kg bags are packed on stretch wrapped wooden pallets, 60 bags per pallet.

STORAGE AND SHELF LIFE

Tekcem® S has a shelf life of 12 months when store to manufacturers recommendations.

STORAGE CONDITIONS

Tekcem® S 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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An ISO 9001:2015 Quality Management Certificated Company



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