

SOFT ROCK MINING

TEKSEAL™

HIGH YIELD, LONG LIFE FOAMING GROUT

DESCRIPTION

Tekseal is a long life, high yield foaming grout supplied as a ready to use free flowing blended cementitious powder. It requires only the addition of water in a suitable placing machine.

APPLICATION AND USES

- Explosion resistant ventilation seals
- Recovery of longwall face falls
- Backfilling behind steel sets
- Recovery of falls in headings and intersections
- Rib stabilisation
- General void filling

ADVANTAGES

- High volume with a typical output of 10-12 x 20 kg bags per m³
- Yields to ground pressure, maintaining an effective seal, even in areas subjected to extreme ground movement, e.g. longwall blocks
- Excellent durability in both wet and dry conditions, ensures long term life
- Simple to install, eliminates the need for hitching into roof, floor and ribs
- Rapid set characteristics minimise hydrostatic pressure, thus enabling light form work to be used for containment
- Rapid placement with up to 15 m³ placed in one hour, minimising labour requirements
- Can be pumped from a safe location of up to 150 m from job site
- Low alkalinity for safe handling



TECHNICAL DATA

Several factors will affect density, strength development, set time and pumping life of the foam. 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:

Water: Powder Ratio	1:1
Gel time @ 20°C (mins)	3-5
Age	UCS (MPa)
1 day	0.6
7 days	0.8
28 days	1.0
Fresh Wet Density (kg/m³)	400-450
Maximum Pumping Distance	
Ventilation Seals	150 m
Cavity Filling	200 m

APPLICATION METHOD

Mixing

Tekseal is designed to be used at a water: powder ratio of 1:1.

- It is essential that the material be used in conjunction with a special purpose placer machine.
- The water requirement will be dependent on the volume and pressure of the compressed air on the job. Full training of operators is therefore necessary.
- Details of procedures together with calibration charts are included in the Tekseal pump operations manual.

Cleaning

All pumps and hoses should be thoroughly cleaned with water after use.

Limitations

To achieve optimum performance, the width: height ratio of the seal can be critical. Consult Minova Australia for advice.

SAFETY INSTRUCTIONS AND LIMITATIONS

Volume output is variable. At the recommended consistency the approximate foam grout yield is as follows:

Water: Powder Ratio	20 kg bags / m³
1:1	11
0.8:1	17

PACKAGING AND TRANSPORTATION

Tekseal is supplied in 20 kg bags and 1.2T bulk bags. All bags are packed on stretch wrapped wooden pallets, 60 bags per pallet.

STORAGE AND SHELF LIFE

Tekseal has a shelf life of 12 months.

STORAGE CONDITIONS

Tekseal 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

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 Certified Company



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