

TekStem®

Pumpable Grout for Stemming Seismic Blast Holes

Description

TekStem was developed in response to a need from the seismic surveying industry for a superior stemming material. Minova's proprietary HYG technology is incorporated in the formulation. By combining with a large quantity of water this permits just one 50 lb bag of TekStem to fill 40 ft of 3-1/2" diameter borehole or 24 ft of 4-1/2" diameter borehole.

Advantages

- Very high success rate in "difficult" ground compared to traditional stemming techniques
- "Plastic-like" consistency when cured ensures it is easily cut if necessary
- Non-brittle
- One 50 lb bag is often sufficient per hole
- Environmentally safe
- No shrinkage
- Can be used in water filled holes
- Long working time, 30-40 minutes @ 100°F
- Free-flowing grout guarantees excellent borehole wall contact
- Improved quality of signal strength and consistency
- Greatly reduced reclamation costs resulting from "blow-outs"

Consult your local Minova representative for additional application information and details.

Industry Sectors



Application Instructions

Workers should take appropriate precautions when handling a cement-based product such as TekStem. These include protective gloves, clothing, eye protection, and dust masks.

Batch mixing tanks as used for cement grout preparation are recommended. Mix 18 gallons of water with one bag of TekStem for a minimum of two minutes. Open throat progressing cavity (Moyno) pumps may be used. Minova would be pleased to advise on suit-able equipment.

Insert a one-inch diameter semi-rigid hose such as polybutylene hose (slickline) to the bottom of the blast hole. Pump the desired quantity of TekStem grout down the borehole. Withdraw the hose as the borehole is filled ensuring that the discharge end is always submerged in TekStem grout.

As the grout is slow to set it is normally not necessary to flush the hose in between stemming operations.

It is recommended to allow for a cure time of 14 days before performing a seismic blast.

Packaging



50 lb bags, 48 bags per stretch-wrapped pallet.

** Patent Pending*

Storage and Shelf Life

TekStem should be stored in original packaging under dry warehouse conditions. High temperature and high humidity may reduce TekStem life expectancy. Six-month shelf life.

Technical Support

We provide a 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.

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Additional information

Started more than 135 years ago, Minova is a global manufacturer and supplier of chemical and mechanical earth control products, adhesives and support equipment. With manufacturing plants on five continents and operations in more than 25 countries, Minova is an industry-leading provider of ground support solutions for the underground mining, construction, tunneling and civil engineering industries.

If further information is required consult Minova Americas.

Manufacturer

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An ISO 9001:2015, Quality Management System Certified Company.



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