

CEMENTITIOUS GROUTS



Tekcrib

Supplementary Roof Support System

Uses

The Tekcrib roof support system is specifically designed as a viable alternative to conventional supplementary roof support.

Advantages

- **Ease of Use** - Ideal for difficult-to-reach areas; material handling is substantially reduced and the fewest possible man hours are required
- **Variable Strength** - Available compressive strength ranges from 100 to 600 psi
- **Simple** - Crib bags are secured to the mine roof using "pogo" sticks, spads, tie wire, etc., then pumped full between the roof and floor
- **Full Surface Contact** - Conforms to irregularities of the roof and floor and is not affected by point loading forces (unlike wood and fiber cribs)
- **Installation Speed** - Field and test data correspond to show an average installation rate of roughly fifteen (15) cribs per hour (30" dia. x 6' height)

Description

The Tekcrib concept is a non-combustible, simple and innovative supplementary roof support system requiring minimal installation time. 30", 36" or 48" diameter cylindrical bags are secured to the mine roof and are subsequently filled with a foamed cement. The placer unit, specially designed by Minova, combines the Tekcrib powder with air and water, producing a cementitious foam which is typically pumped a distance of 1,000 ft, although much longer distances are possible when pumping down surface boreholes. (Contact Minova for information.) The lightweight mix, weighing about 1,000 lbs/yd³, begins

to gel within minutes of discharge, and cures to a final strength ranging from 100 to 600 psi, depending on the Operator's requirements.

Shelf Life

Three months in dry conditions.

Instructions for Use

It is highly recommended that a consultant from Minova, or an authorized contractor, be on site to advise mine personnel, especially during the pumping process, to calibrate the placer unit and make adjustments to the water supply.

1. Cut a 3" to 5" slit in the center of the top bag surface. This opening will serve as a breather while pumping.
2. Using spads, tie wire, "pogo" sticks, etc., and maintaining a circular shape, secure the top of the bag to the mine roof using the integral supports.
3. Adjust the hanging bag so that the sides are as close to plumb as possible. At the base, turn any excess length up into the body of the bag so that the bottom edge of the sides is suspended approximately 4" above the mine floor.
4. Pump Tekcrib material into the bag, slightly pressurizing against the roof when full.
5. Open the discharge valve for the next crib to be pumped and close the valve leading to the completed unit.
6. Repeat the process until all cribs have been filled.

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Tekcrib

Placer - Motor: 15 HP AC; Full load amps - 21 @ 460V, 18 @ 575V.; Cable Size: normally #6 (permissible unit available). Develops 200+ psi (pumping distance based on water-to-solids ratio). Requires 25 gpm @ 50 psi without the optional water heater, 100 psi with. Dimensions: 3'6" x 2'3" x 11'9"; Wgt: ~1,700 lbs. Unit capacity: ~17.5 yds³/hour.

Water Heater - Required in some applications to bring the water temperature above 60°F.
Full load amps - 90 @ 460V, 110 @ 575V;
Cable Size: normally #2;
Dimensions: 3'2" x 3'4" x 3'10";
Wgt: ~1,700 lbs. (when full)

Packaging

45 lb, 3-ply bags with 1 polyethylene layer, 48 bags per stretch-wrapped pallet.

Minova Americas Products

Bolts and Plates

Anchoring Products

Pumpable Cementitious Grouts

Airtite® Sealants and Coatings

Chemical Grouts



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