

Tekfoam



Pumpable foamed cement for cavity filling

Uses

Tekfoam cement is a foamed mix for use in cavity filling and backfilling. Although the primary use for **Tekfoam** cement is the filling of cavities on longwall sections, other popular uses include backfilling over a set of arches to provide contact against the roof, filling a cavity to prevent methane build-up, and as a cushion against falling debris over false roof.

Advantages

- **Fast** - Pumping rate of over 100 yds³ (76.46 m³) per shift is possible; Convenient one bag blend
- **Simple** - Placer unit meters in proper amounts of air and water while pumping the foam to the site
- **High Yield** - Less material to handle; four 45 lb (20.41 kg) bags will yield 1 yd³ (0.76 m³) - the result is less costly than typical foamed cements
- **Safety** - Roof falls and cavities can be supported safely; low causticity absolutely minimizes the possibility of cement burns

Description

Tekfoam cement is a non-combustible, void-filling, and structural cementitious foam. Supplied as a powder, the cement forms a low-density foam (0.25 to 0.35 sg) when combined with the proper amount of air and water in the specially designed placer unit. Normally, four 45 lb bags/yd³ (5.23 bags/m³) are used. **Tekfoam** mix is typically pumped 400 feet (121.9 m) through a 1" (25.4 mm) diameter hose, farther through a larger diameter hose. The 20 psi (0.1379 MPa) product begins to gel in minutes forming a non-toxic, non-combustible product weighing approximately 540 lbs/yd³ (320.4 kg/m³), and because of its rapid strength gain, is firm enough to walk on in 30 to 60 minutes.

Consult your local Minova USA Inc. representative for additional application information.

Packaging

45 lb (20.41 kg), 3 ply bags with one polyethylene layer, 48 bags per stretch-wrapped pallet.

Shelf-Life

One year, in dry conditions.

Instructions for Use

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

1. Build a form to hold the foam in the desired location. Formwork can be of light-weight construction unless the foam is also to provide roof support. **Tekfoam** cement can bridge gaps over 1" (25.4 mm) wide.
2. Run at least 200 ft (60.7 m) of 1" (25.4 mm) hose from the pump to the cavity area.
3. In the case of a cavity that needs to be filled remotely, install two 3" (76.2 mm) diameter, or greater, stand pipes into the cavity. One pipe needs to go into the highest point of the cavity, while the other pipe can be lower.
4. Run the 1" (25.4 mm) discharge line up the lower stand pipe.
5. Hook up fresh water at a rate of 15 gpm (56.8 L/m) at 50 psi (0.3447 MPa), and AC power, to the placer. 24 gal (90.8 L) of water per 100 lbs (45.4 kg) of **Tekfoam** powder are required.
6. Pump the **Tekfoam** mix into the cavity until it emerges from the higher stand pipe.

Placer - Made in the USA by Minova USA Inc.; Multi-use placer unit is used to transfer several of Minova USA Inc.'s cementitious products: Tekseal®, Tekblend, Tekcrib, Tekrok, Tekrok SCR

Motor: 15 hp (11.2 kW) AC; Full load amps - 21 @ 460V, 18 @ 575V (permissible unit available)

Cable Size: normally #6;

Develops 200+ psi (1.379+ MPa), and typically pumps **Tekfoam** cement 1,000 ft (304.8 m) through a 1¼" (31.75 mm) hose. Requires 15 gpm (56.8 L/m) @ 50 psi (0.3447 MPa) without the optional water heater, 100 psi (0.6895 MPa) with; Dimensions: 3'-6" x 2'-3" x 11'-9" (1.07 m x 0.69 m x 3.58 m);

Wt.: 1,700 lbs (771 Kg);

Unit capacity: 17.5 yds³/hour (13.4 m³/hr)

Water Heater - Required in some applications to bring the water temperature above 60°F (15.6°C); Full load amps - 90 @ 460V, 110 @ 575V.; Cable Size: normally #2; Dimensions: 3'-2" x 3'-4" x 3'-10" (0.97 m x 1.02 m x 1.17 m);
Wt.: 1,700 lbs (771 kg) when full

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Minova USA Inc. Products

Airtite® Sealants and Coatings

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Tekroc
Tekseal®
Tekfoam
Ultracem



Minova USA Inc.
150 Carley Court
Georgetown, KY 40324
Tel: 502 863 6800
FAX: 502 863 1374

Minova USA Inc.
P.O. Box 3124
Grand Junction, CO 81502
Tel: 970 245 4007
FAX: 970 242 1839

Important Note:

Warranty

Minova USA Inc. warrants that its products, at the time of shipment, conform to the applicable descriptions set forth in the invoice and are free from defects in material and workmanship. NO OTHER WARRANTY, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF ANY MINOVA USA INC. PRODUCT, AND ALL SUCH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED AND EXCLUDED.

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