

CEMENTITIOUS GROUTS



Tekgrout®

Fast-Setting, Pumpable Cementitious Injection Grout

Uses

Tekgrout® injection grout is ideal for the consolidation of fractured strata or loose rock and gravel, and can also be used to control some water flows.

Advantages

- **Flexibility** – Formulation allows project-specific mix; strengths up to 2,500 psi; variable viscosity enables maximum strata penetration, minimal product waste
- **Adjustable Set Times** – Set time can be varied from under a minute to several hours, depending on project requirements
- **Non-Toxic** – Assures worker safety and protection of the environment
- **Non-Flammable** – No unusual storage or ventilation requirements, equipment clean-up procedures or waste disposal
- **Affordable** – Significantly lower cost than polyurethane grouts

Description

Tekgrout® injection grout is a single-component, variable strength cementitious grout designed as an alternative to polyurethane systems. A wide flexibility with strengths and viscosities enables excellent strata penetration and gel times as low as 40 seconds. The material's adhesive and interlocking characteristics collectively assure a solid bond.

Consult your local Minova representative for additional application information.

Packaging

Tekgrout® injection grout is packaged in 50 lb, 3-ply bags with 1 polyethylene layer, 48 bags per stretch-

wrapped pallet.

Shelf Life

Stored in cool, dry conditions, the shelf life is four months.

Instructions for Use

Unlike polyurethane systems, fresh air respirators or self-contained breathing apparatus are not required, and no unusual ventilation requirements are needed while pumping. Workers should take precautions including protective clothing, gloves and adequate eye protection.

1. Drill packer holes and install packer tubes before preparing to pump the material.
2. Locate the placer unit as close to the injection site as is practical, then supply power and water. Before pumping any grout material or connecting the discharge line to a packer, flush all lines with water to assure there are no blockages.
3. Pump the grout material through the lines and set the output to the desired water-to-solids ratio.
4. Discontinue pumping only long enough to connect the discharge line to the first packer tube, then begin pumping. Continue to pump until full grouting has been achieved. Assure the desired water-to-solids ratio by monitoring accordingly (only experienced technicians should be used, and are available through Minova).
5. Proceed to the next hole. Repeat the procedure until all locations have been fully grouted.
6. When pumping is completed for the shift, thoroughly clean the pumping unit and all discharge lines with water.

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Tekgrout®

Grout Pumping Equipment

Various pumps and mixers are available depending on desired pumping rates, desired pressure and available power sources. Contact your local Minova representative for details.

Technical Supplement

Tekgrout® injection grout can accommodate a wide range of water-to-solid ratios from 1:1 up to 5:1. It may be mixed and pumped using the Minova full-sized

placer or the hydraulic placer, in mining applications. Commercial grout plants for tunneling applications are equally suitable.

At the lower ratios, gelation occurs in 30 seconds to 2 minutes. At higher ratios, gelation occurs in about 10 minutes. With all mixtures, the viscosity is low immediately on mixing with water. This aids penetrability of the strata. Fast gelation minimizes loss of grout due to excessive migration from the point of injection.

Technical Data (typical results)

Cure Time Strength (psi)

Water/Solids Ratio	Viscosity cp	2 hrs	24 hrs	7 days	28 days	Quantity/yd ³ (lbs)	Bags/yd ³
5 : 1	25	n.d.	12	100	230	315	6.3
4 : 1	32	n.d.	20	160	290	390	7.8
2.5 : 1	40	20	70	420	800	600	12.0
2 : 1	42	25	80	600	1100	725	14.5
1.5 : 1	75	40	120	950	1800	900	18.0
1.25 : 1	150	110	300	1200	2200	1020	20.4
1 : 1	250	200	450	2000	2900	1220	24.4

Minova Americas Products

Bolts and Plates

Anchoring Products

Pumpable Cementitious Grouts

Airtite® Sealants and Coatings

Chemical Grouts



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