

MINING / CONSTRUCTION

TEKGROUT®

FAST-SETTING, PUMPABLE CEMENTITIOUS INJECTION GROUT

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.

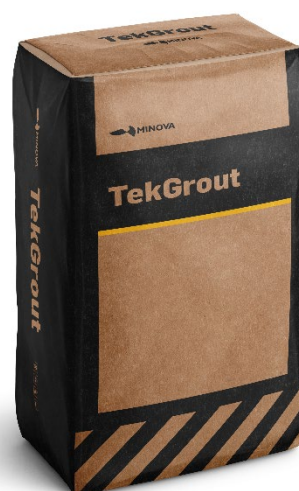
Consult your local Minova representative for additional application information.

USES

TekGrout® injection grout is ideal for the consolidation of fractured strata or loose rock and gravel. TekGrout® 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, with minimal product waste
- Adjustable Set Times – set time can be varied from under a minute to several hours, depending on project requirements
- Non-Flammable – No unusual storage or ventilation requirements, equipment clean-up procedures or waste disposal



APPLICATION METHOD

Unlike polyurethane systems, fresh air respirators or self-contained breathing apparatus are not required, and no unusual ventilation requirements are needed while pumping.

Drill packer holes and install packer tubes before preparing to pump the material. Locate the placer unit as close to the injection site as is practical, then supply power and water. Before pumping and grout material or connecting the discharge line to a packer, flush all lines with water to assure there are no blockages.

Pump the grout material through the lines and set the output to the desired water-to-solids ratio.

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 USA, Inc.). Proceed to the next hole. Repeat the procedure until all locations have been grouted

TECHNICAL DATA

The data below is laboratory data only. It may vary in practice due to thermal exchange between cement and rock, temperature and other factors.

CURE TIME STRENGTH (PSI)

Water/ solids ratio	Viscosity (cps)	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

SAFETY INSTRUCTIONS AND LIMITATIONS

Observe the usual precautionary measures for handling cements, see TekGrout® SDS.

When pumping is completed for the shift, thoroughly clean the pumping unit and all discharge lines with water as recommended by pump manufacturer.

PACKAGING AND TRANSPORTATION

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

STORAGE AND SHELF LIFE

At least 4 months if stored in cool dry conditions.

DISPOSAL

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of material in accordance with all applicable federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

APPROVALS AND CERTIFICATES



an ISO 9001:2015
Quality Management System Certified Company.

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ADDITIONAL DOCUMENTATION

Started more than 135 years ago, Minova is a global manufacturer and supplier of chemical and mechanical earth control products 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 and energy industries.

If further information is required consult Minova Americas website: www.minovaglobal.com.

- TekGrout® Safety Data Sheet (SDS)
- Minova Pumps for Mining Brochure
- Minova Pumpable Cement Grouts Brochure

MANUFACTURER

Trading name of Minova USA, Inc.
150 Summer Court
Georgetown, KY 40324
USA

CUSTOMER SERVICE

Customer.salessupport@minovaglobal.com
Phone: +1 (800) 626-2948
Alt Phone: +1 (502) 863-6800
Fax: +1 (502) 863-6805