



Grouting Professionals

Water Control for Underground Mines

ENGINEERING SERVICES

- Water Control for Underground Mines
- Ground Improvement for Ventilation Raise Construction
- Ground Improvement for Shaft Sinking
- Grouting for Borehole Drilling
- Mine Development Support

INTERNATIONAL EXPERIENCE

- Indonesia
- Philippines
- Taiwan
- Mexico
- Honduras
- Peru
- Finland
- Canada
- USA

CLIENTS

- Newcrest Mining
- Agnico Eagle
- Excellon Resources
- Pan American Silver
- Breakwater Resources
- Diavik Diamond Mines
- HudBay Minerals
- Goldcorp
- FNX Mining

COMPANY PROFILE

Multiurethanes Grouting Professionals offer unique engineering services to **TROUBLESHOOT CHALLENGING WATER INFLOW PROJECTS** in underground mines. Typical problems resolved by our hands-on engineers include large-volume high-pressure water inflows and construction through broken and water-bearing ground conditions.

Multiurethanes specializes in the application of specific grouting technologies involving chemical and cement grouts, specialized equipment and accessories as required to overcome difficult underground mining conditions. Multiurethanes Grouting Professionals deliver on site training and instruction of grouting fundamentals to provide your crew with water control capabilities.

For a summary of grouting services routinely provided to mining clients, please contact Vreneli Wall at vreneli.wall@multiurethanes.com

For project specific inquiries, please contact Peter White at peter.white@multiurethanes.com

innovative SOLUTIONS that HOLD WATER



Newcrest Mining, Kencana K2 Project, Indonesia
Microfine cement grouts were used to improve ground conditions through fractured and water-bearing ground conditions prior to ventilation shaft construction using raise bore methods.



Pan American Silver, Huaron Project, Peru
Cement grouts were used to reduce high volume water inflows through fractured and water-bearing ground conditions prior to shaft construction using conventional sinking methods.



Rio Tinto, Diavik Diamond Mine, Canada
Cement grouting methods are used to fill water-bearing fractures and reduce the potential for high-volume groundwater inflows prior to underground mine development operations.



Excellon Resources, Platosa Mine, Mexico
Deep hole drilling and high-volume cement grouting operations were used to seal water-bearing rock formations and successfully recover a flooded underground silver mine.