



Installation of 1000 meters of PE-X pipe for an underground mine.

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**Lundin Mining -
Alcaparosa Mine**
Chile | 2019
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The Challenge

Lundin Mining at Alcaparosa Mine had to install a drainage line for its underground mine, where the main problem they faced was lack of time. They needed a non-invasive installation of the pipeline in order to allow the continuity of the mining operation and get back to work in the shortest time possible.

Working Conditions:

Underground work

Pexgol Pipes:

Pexgol 160 mm (6"), class 19

Application:

Dewatering

Length:

1000 m

Pexgol Solution

The client decided to install 1000 meters of Pexgol pipe that was supplied in two coils of 500 meters each.

Cross-linked polyethylene was chosen because of:

- Its long-length supply format.
- Ease of installation, thanks to the flexibility of the pipe that was easy to accommodate in the curves of the interior of the mine.
- Short installation time to avoid stopping the mining operation.

Installation was quick and easy, uncoiling the full length of the pipeline and then dragging it into the mine.



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Advantages

- **High resistance to wear:**
Pexgol is the preferred solution for abrasive materials transportation. Typically resists three times more than HDPE and twice more than steel.
- **Excellent chemical and corrosion resistance:**
Pexgol pipes can resist a wide range of chemical agents, slurries, toxic and radioactive materials.
- **High temperature resistance:**
Working temperatures can range from -50°C/-58°F up to 110°C/230°F.
- **Superb internal and external corrosion resistance:**
Our pipes are proven to withstand decades of exposure to corrosive environments, with nonstop performance in some of the world's harshest environments.
- **Long pipe sections:**
Pexgol pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.
- **Creep and impact resistance:**
Crosslinked Pexgol pipes can withstand high amounts of axial and radial stresses and are highly resistant to impact, fracture and fatigue. Furthermore, Pexgol pipes are completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

