



Installation of buried pipes to transport water on a mining road.

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**CODELCO -
Andina Mine**
Chile | 2019
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The Challenge

CODELCO required to transport water in an open pit mine section, destined for a pool located on the south side. The job had to be done quickly to avoid damage to the access road. Therefore the pipeline should be located on the side of the road, buried.

Working Conditions:

Extreme temperatures
-20° to 35°C / -4° to 95°F

Pexgol Pipes:

Pexgol 355 mm (14"), class 19

Application:

Dewatering

Length:

1700 m / 5577 ft

Pexgol Solution

The client chose Pexgol because it was impossible to meet the delivery terms of the pipeline enabled with another type of pipe. The advantage of Pexgol, in this solution, lies in the supply format in coils of long lengths and the possibility of burying it without the need for a sand enbedding. In addition, the pipeline was guaranteed to withstand strong temperature variations over the course of a year, ranging from -20°C to 35°C / -4°F to 95°F. The installation was simple and fast. Crosspipe Systems carried out a complete induction to the pipe installation company, both in the uncoiling and in the welding of the couplings. In total 35 electrofusion couplings were made.





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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.

