



Pipe installation on a mountain

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**Codelco Andina,
TADA 1-2 Project
Chile | 2013-2014**
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Working conditions:

Complex & harsh ground,
300 m altitude

Pipes used:

Pexgol 315 mm, Class 15 (SDR 11)

Application:

Water transportation

Length:

3,300 m

The Challenge

Codelco needed to transport meltdown water downhill at Andes Mountain range.

The water pipes installation was a big risk for the team, as well as huge workforce with short time schedules.

The Solution

Using hoses seemed to be the solution, but the complexity of its installation made the client decided to use Pexgol in long sections instead.

The installation was simplified by the use of Pexgol long sections. The pipes were unrolled from its coils and jointed trough electro-fusion, to be dragged and mapped out according to the project.

The installation was done in perfect timing with an optimal performance.



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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 non-stop performance in some of the world's harshest environments.
- **Low weight:**
Compared to steel or rubber, Pexgol's solution results in reduced transportation, storage and labor costs due to lower weight per meter.
- **Long pipe sections:**
Pexgol's pipes can be supplied in long lengths coils, reducing number of joints, installation time and risk.
- **Creep and impact resistance:**
Pexgol's crosslinking piping solution can withstand high amounts of axial and radial stresses and are highly resistant to impact, fracture and fatigue. Our pipes are also completely resistant to cracks – even when dragged over sharp rocky terrain and coagulated salt crystals.

