Dewatering at an Open Cast Mine

Case Study | No.30

Water extraction from a middle pool to the exterior of the mine

Codelco, Ministro Hales Division

Chile | 2016

Working conditions:

Extreme temperatures (-25° to 40°C)

Pipes used:

Pexgol 160 mm Class 19 (SDR 9)

Application:

Water extraction

Length:

400 m

The Challenge

The harsh environmental conditional where Codelco needed to install dewatering lines at the open cast mine, made the engineers opt for a change in their pipe material. They consider Pexgol as an option to decrease the repetitive failures they had with former materials.

The Solution

A 400 meters Pexgol pipe 160 mm Class 19 was provided, in one section without joints. The Pexgol pipe allowed a quick, reliable and easy installation on the harshest conditions of the open cast mine.

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PEXGOL X-LINKED PIPING SOLUTIONS

Water extraction from a middle pool to the exterior of the mine

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.

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