



Pexgol pipe installation for open pit mine drainage.

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BHP Escondida Mine
Chile | 2022
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Working Conditions:

Fluid: agua industrial
Ambient temperature: 5° to 20°C /
41° to 68°F

Pexgol Pipe:

Pexgol 225 mm (8"), class 15

Application:

Open pit mine drainage

Length:

200 m / 656 ft

The Challenge

BHP at its Escondida mining unit needed to drain water from inside its open pit mine to the outside. The client used to use conventional HDPE pipes in 12-meter strips in its operations, which requires long installation times, joints and associated resources.

Pexgol Solution

The client decided to replace its conventional HDPE pipes with Pexgol, which could be supplied in long sections (200 m), which allowed and facilitated installation. Likewise, Pexgol allowed the use of fewer joints for the total section.

An unwinding time of 200 meters was calculated, in 40 minutes set at the end point. The same amount of meters in pipes with strips of 12 meters, they achieved it in 14 days, that is, 20,160 minutes.

Performance:

Tubería HDPE= 200 m / 20160 min = 0,6 m/hr
Tubería Pexgol= 200 m / 40 min = 300 m/hr

Pexgol performance 504 times more efficient.



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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.

