



Dewatering without supports

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El Volcan Mine
Arcelor Mittal
Mexico | 2017
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Working conditions:

Pressure 189 psi; height difference 130 m; solids 15-20 %; fluid temperature 20-25°C

Pipes used:

Pexgol Class 15 160 x 14.6

Application:

Dewatering

Length:

650 meters

The Challenge

El Volcan Mine was facing a excess water that required dewatering. During rainy season the Mine area suffers from constant floods due to high level groundwater that wasn't taken under consideration.

In addition, the client was looking for a quick and easy to install solution, since the pipe was going to be suspended, and a regular pipe will require supports.

The Solution

El Volcan Mine decided to replace their current 6" RD11 HDPE pipe for a Pexgol class 15 pipe 160 x 14.6 due to it quick and easy installation.

650 meters of Pexgol pipe was provided. The installation was done in a quick and efficient way, and count with Pexgol technical support during the whole process.



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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's pipes can be supplied in long lengths coils, reducing number of joints, installation time and risks.
- **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. Also are completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

