



Pexgol pipe to transport effluents at 30°C / 86°F in an underground mine.

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AngloGold Ashanti
Brazil | 2019
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Working conditions:

Temperature: 30°C / 86°F
Pressure: 12 bar
Flow: 150 m³/h

Pexgol pipes:

Pexgol 225 mm (8"), Class 24

Application:

Dewatering

Length:

120 m / 393.70 ft

The Challenge

AngloGold had urgency in installing a new pumping line to remove effluents from the mine. Using traditional pipes could take up to two months to get the job done, considering all the preparation required to install such pipes. Furthermore, for AngloGold, using regular piping would mean putting its people in danger during the preparation to install the pipes and during installation itself.

Pexgol Solution

Using Pexgol allowed AngloGold to reduce the installation time by ten times, as a single continuous 120-meter-long pipe was used. Through an existing hole drilled on the mine the pipe was descended connecting its upper and lower parts. There was no need for people to be kept hanging at high heights to prepare any kind of structure to install the pipeline and no joints aside from the two extremes of the pipe were needed.

The reliability of Pexgol during the last years has motivated the client to continue with their material reliability improvements in other parts of the facility, and other sites.

It was an easy installation process, despite being the first time using Pexgol, and it was all done by AngloGold's crew itself.

With a Volvo L90 loader and a JCB Loadall telescopic handler the crew completed the installation in 3 days.



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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.

