

Evolving Mine Operations with Pexgol Piping

The Robust & Flexible Answer to Constantly Changing Mine Surfaces.



Peña Colorado Mexico | 2023

• Working Conditions

Temperature: Ambient
Flow: 410 m³/h
Pressure: 7 bar
Fluid components: Rainwater
Pipe exposed to the sun

• Pexgol Pipe

Pexgol 10", SDR 11

• Application

Mine Dewatering

• Length

500 m / 1640 ft

The Challenge

Peña Colorado, a leading company dedicated to the exploration, exploitation, and beneficiation of iron ore, met with a unique operational hurdle at their open-pit mine in Mexico. Historically, they employed HDPE piping systems for mine drainage. However, as the mine's surface continuously evolved, they faced the challenge of constantly relocating their pumps and piping. Each relocation with their steel pipes required a significant workforce, two cranes, and a special transportation mechanism for the pipe. Furthermore, they had to ensure very broad curves to prevent leakage at the joints.

The Solution

Pexgol, recognizing the inherent challenges with the existing piping system, introduced their 10" SDR 11 pipes. These were designed not only to address the drainage needs but to offer unmatched flexibility in a mining environment where surfaces change frequently. The Pexgol pipes could be easily dragged for relocation across the mine's floor without compromising operational pressures. Moreover, these pipes could effortlessly follow any path necessary for optimal drainage.

During installation, as the pipe was being unrolled, it was simultaneously positioned where it was to be installed, connecting the pump to the discharge pipe. The entire process was completed in a single shift without any special surface preparation. The mine, which notably **produces steel and even manufactures steel pipes, chose Pexgol** due to its superior corrosion resistance and installation flexibility.



The Advantages of Pexgol Pipe Systems

PEXGOL
X-LINKED PIPING SOLUTIONS



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.



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.



Excellent chemical and corrosion resistance

Pexgol pipes can resist a wide range of chemical agents, slurries, toxic and radioactive materials.



Long pipe sections

Pexgol pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.



High temperature resistance

Working temperatures can range from -50°C/-58°F up to 110°C/230°F.



Creep and impact resistance

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.

For more information please visit:
pexgol.com

