



Replacement of HDPE pipe for Pexgol

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Tizapa Mine

Mexico | 2015

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Working conditions:

Pressure 100 Psi; Flow 225 m³/h;
Specific Weight 1.2 t; Solids 20-30%

Pipes used:

Pexgol 10" 250 mm, Class 15 (SDR 11)

Application:

Slurry transportation

Length:

200 meters

The Challenge

Tizapa Mine formerly installed an HDPE line where they used to transport slurry. This pipe suffered several failures on the joints, so did the thermo-fusions and the stub-ends as well.

They determined that the failures were caused by small water hammers on the line.

The Solution

Due to these special circumstances, Tizapa Mine decided to install Pexgol pipes for the following reasons:

- Supplied in long lengths coils: Of 100 meters each, reducing possible failures in the joints.
- It has high resistance to water hammers.
- Burst pressure: 3 times higher than nominal pressure.
- Safe joints: They don't deform neither detach caused by a pressure surge.
- Quick installation: Coils were uncoiled in 1.5 work hours, without any complex equipment.



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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 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.



Thermo-fusion HDPE joint with a stub-end, plus counter flange and reinforced Victaulic 995 couplers



Transition from Pexgol 10" to an existent coated steel 10"x8" reducer

