Slurry Transportation
Case Study | N.40

Replacement of a HDPE pipe for a Pexgol pipe

Sabinas
Mine
Mexico | 2017

Working conditions:

discharge by gravity, ambient temperature, abrasive fluid.

Pipes used:

Pexgol SDR 15 225 x 20.4

Application:

Slurry transportation

Length:

1642 meters

The Challenge

The client required to replace their current HDPE pipe lines where they transported slurry since they have frequent wear and leak issues on the joints. They used thermo-fusion welding, plus reinforcement with a Vitaulic 995 coupler. This sort of situation involved a considerable expense every time they failed, but they didn't last long. The failures were every 3 to 4 months.

The Solution

In order to perform a better job when transporting slurry, the client decided to install a Pexgol pipe of 1642 meters SDR 15 225 x 20.4. Thanks to Pexgol's comprehensive piping solution, abrasion issues were avoided, since its cross-linked material is between 4 to 10 times more resistant than other pipes materials.

The pipes were supplied n sections up to 240 meters each one, consequently the installation was simple improving the process's security and therefore protecting the environment.

Replacement of a HDPE pipe for a Pexgol pipe

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.

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