

Streamlining Water Supply in Highway Construction



Guaranteeing an efficient water supply with the Pexgol piping solution in the Mendoza-San Juan Highway project.



 **Chediack / Ceosa**
Argentina | 2023

• Working Conditions

• Pexgol Pipe

Pexgol 160 mm, class 15

• Application

Water network

• Length

188 m / 616 ft

The Challenge

The construction companies Chediack and Ceosa are undertaking a significant project in Argentina – building a dual-track highway that connects Mendoza to San Juan. As they embarked on the construction of the second section, they faced a specific challenge. They had to provide water to the cooperative responsible for the water distribution in that sector while constructing the highway. This required running a pipeline underneath the highway. The existing pipeline system, made of rubber and PVC, presented an interference under the embankment of the highway. Furthermore, the challenge was compounded by the need to use a material that allowed for a continuous pipeline without dependencies on joints, given the considerable length of 188 meters (about 616 feet).

The Solution

Pexgol offered an apt solution to Chediack and Ceosa's unique challenge with their 160mm PE-X pipe. Pexgol's pipeline, owing to its ability to be shipped in long coils, allowed for a full-length installation without the need for joints. This attribute turned out to be particularly beneficial given the significant length required for this project.

Loose flanges and MAS joints were used in the installation process, which was quick and efficient. Once the trenching was completed, the Pexgol pipe was transported to the site, unrolled, lowered, and distributed into the trench. The trench was then backfilled with the excavated soil, compacted, and the remaining cover and compaction completed. The consortium responsible handled the connections to the existing network and subsequent commissioning.

Opting for Pexgol's pipeline system provided a multitude of benefits. Its quick installation time, lightweight and easy-to-handle properties, ability to provide long sections, and transportation in rolls helped streamline the water supply infrastructure in the highway construction project. The practicality and efficiency of Pexgol's pipeline solution made it a valuable resource in the construction of the highway between Mendoza and San Juan.



The Advantages of Pexgol Pipe Systems



High wear resistance

Pexgol is the preferred solution for abrasive materials transportation. Typically resists three times more than HDPE and twice more than steel.



Superior external corrosion resistance

Pexgol withstands decades of exposure to corrosive environments, with nonstop performance in some of the world's harshest environments.



Excellent chemical and corrosion resistance

Pexgol pipes endure 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 range from -50°C/-58°F up to 110°C/230°F.



Creep and impact resistance

Pexgol pipes tolerate abnormal 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

