

Transport of muddy water for palm oil extractor

Pexgol piping was selected for the assembly of a muddy water transport line for a palm oil processing company.



Extractora Poligrow Colombia | 2022

• Working Conditions

Flow rate: 176 psi
Temperature: 80°C / 176°F

• Pexgol Pipe

Pexgol 110 mm (4"), class 15

• Application

Transport of muddy water

• Length

550 m / 1084 ft

The Challenge

Poligrow Colombia is a company dedicated to the development of agro-industrial projects, focused on palm oil extraction.

Poligrow needed a new transport line for muddy water to the oxidation lagoons. For this purpose, excavation and installation of the piping was carried out in the palm crop, without causing damage to the plants or irrigation piping. The route of the piping extended from Florentino, passing through the main road and the plantation.

The Solution

Poligrow opted to use Pexgol's PE-X piping for the transport of muddy water. The choice of Pexgol was crucial to finish the project quickly and efficiently.

Pexgol was chosen for several reasons: firstly, the installation was quick and simple, which saved time and costs. Additionally, the use of PE-X piping reduced the number of necessary joints, further simplifying the installation.

Another advantage was the supply in a 550-meter roll, which minimized the need for additional cuts and joints. The installation of the 550 meters of piping was carried out in a record time of 7 hours, thanks to the efficiency and simplicity of the process.

To carry out the installation, two GP mechanical joints were used, and support was provided by a CAT 312 backhoe, a Benitin vibrocompactor, and a ratchet. In addition, the technical team responsible for the installation consisted of one officer and one assistant.

In summary, the choice of Pexgol and its PE-X piping for the transport of muddy water in the palm oil processing plant was a wise decision, as it allowed the project to be completed quickly, efficiently, and with minimal interruptions.



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

