



Installation of a Pexgol pipe on top of a steel outdated pipe

**Ashdod Sea Port**  
Israel | 2016

**Working Conditions:**

High pressure, abrasion, constant water hammers

**Pexgol Pipe:**

Pexgol 315 mm 90 Class 12 SDR 16.3

**Application:**

Chemicals Transportation

**Length:**

1.3 km

**The Challenge**

Commonly at Ashdod Sea Port (Israel) they require to transport all kinds of chemicals, acids and slurries to ship for export, from the port to the shipping boats.

In order to fulfill this procedure they installed cast steel pipes, which suffer from corrosion inside the pipe due to the chemicals after so many years carrying them. This steel pipes were very expensive to maintain, including frequent cleaning.

**Pexgol Solution**

An engineering firm specializing in the chemical industry, stated that Pexgol was the ideal solution for dealing with the challenges of the line:

- Pexgol's proven ability to deal with acids.
- Durability of the pipes.
- The possibility of installing a 315 mm continuous pipe line without flanged connections in curved sections, saving the number of flanges and dramatically reducing weak points.

The Pexgol pipes were installed hanging with fixpoints on top of the current steel pipes, without damaging them. Omegas were installed as well (that couldn't be done with PE pipes).

Took 10 days to install and operate the line, having the ships waiting in the water, the line started working immediately after completion.



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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 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.

