



Sewage Water Transportation with 300 ppm Hydrogen Peroxide

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BorsodChem
Hungary | 2011
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Working Conditions:

Extreme corrosion

Pipes used:

Pexgol 200 mm
Pexgol Prefabricated Elbows 200 mm

Application:

Sewage Transportation

The Challenge

BorsodChem required to transport sewage water with 300 ppm hydrogen peroxide for a medium of manufacturing procedure of car-spareparts. The client has tested different pipe material such as HDPE, steel and ductile cast iron (both with and without lining), but none of this materials could withstand the corrosion.

The Solution

The client decided to install a Pexgol pipe 200 mm. The installation was conducted with Plasson HDPE electrofusion technology combined with butt fusion preparing tools (the butt surfaces of pipes were made plain / the blocking elements of EF couplers were removed - this way the aggressive media could not reach the internal surface of the EF couplers).

The pipe is still working till today withstanding the high corrosive conditions.

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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 is highly resistant to impact, fracture and fatigue. Also is completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

