

Case Study: Oil & Gas – Storage Tank Farms

RD-6 – Non-Shielding Coating System



Industry

Oil & Gas—Storage Tank Farms

Customer

One of the largest National Oil Companies in the Middle East, the company operates vast storage facilities for oil, petroleum, and refined products, which are supplied to a wide range of end-users, including a major international airport.

Back-ground

In one of the storage tanks facility the fire water line leaked because of coating system failed. The pipeline came in operation just 3 years before and in high tide, sea water on daily basis submerges the pipeline which becomes a very demanding situation for the coating system. The PE backed coating system failed and resulted in leaks and holes in the pipeline, within a span of 3 years.

Challenges Faced

The fire-water pipeline being a highly critical pipeline for fire safety, had to be shut, resulting in halting of supply of fuel to local international airport – which could seriously affect the operations of one of most busiest airports in the world.

Operating Conditions

1. Pipeline Diameters: 16”
2. Media: Fire Water
3. Environment: Sea water submerged
4. Original Coating: Polyken PE Tape

Solution & Benefits

After evaluating multiple field-applied coating systems, the client chose RD-6 for its superior material composition and complete water ingress protection. Its strong resistance to soil stress in fluctuating water tables has made it their preferred solution since 2015–16.

RD-6 features a durable polypropylene mesh-back design, outperforming PE-based coatings in harsh soil conditions — making it the preferred choice for long-term protection.



