

Tobago Airport aviation fuel supply line

Case study

Focus products: Intercrete® 4840, Intercrete® 4870

Location: Florida, USA

Client: National Petroleum Marketing Company, Trinidad

Contractor: Trenchcoat Limited

Summary: External corrosion protection of 100mm diameter aviation fuel pipeline prior to burying



Background

On behalf of the client, Trinidad's National Petroleum Company, an innovative solution was sought to the problem of corrosion of a buried aviation fuel supply line.

Located in soft sand in close proximity to both the coastline and swamp area, the environment is particularly aggressive leading to concern over the long term integrity of the main feed into the tank farm at Tobago Airport.

The solution

After exposing and preparing the pipeline, a 2mm layer of Intercrete 4840 was applied directly to the steel surface to provide immediate passivation. Once cured, Intercrete 4840 forms a highly durable barrier to the fuels for corrosion, blocking out water and chlorides whilst also providing enhanced chemical resistance. Intercrete 4840 exhibits good resistance to cathodic disbondment and is therefore compatible with the system which was installed. Following holiday detection testing, the pipe was inspected and buried to give many years of corrosion free life. Intercrete 4840 is water-based and therefore offers an environmentally friendly alternative to traditional coatings.