



Titanium Replaced with Coated Carbon Steel Agitator Shaft & Impeller

Industry: Manufacturing
Product: Corroglass AR4 & Glass Reinforced Fabric
Expertise: External Coating of Plant and Equipment

The client replaced an expensive titanium impeller & shaft with carbon steel components coated with AR4. The environment is pH0-15 temperature 20-80°C chemicals Sodium Hypochlorite, Caustic, Sulphuric & Hydrochloric Acid & Brine. AR4 is a 2 pack cold cured brominated vinyl ester / acrylic co-polymer enhanced with glass flake. These items were post cured for 8 hours @ 80°C to maximise protection.



Seawater Fire Main Oil Refinery

Industry: Oil & Gas
Product: Corroglass 600 series & Plasmert ZF
Expertise: Internal & External Pipe coating

This reducing spool forms part of a seawater fire main. Without protection severe corrosion would occur rapidly in this aggressive sea water environment. The design life of the firemain was 15 years so Corrocoat was selected to provide corrosion protection internally with 600 series and external protection with ZF.



Prover Loop Protection Accurate Measurement of Crude Oil Flow

Industry: Oil & Gas
Product: Polyglass VEF & Fluiglide
Expertise: Internal Pipe Spraying

For a prover loop to accurately measure the crude oil, minimal surface friction and long term corrosion protection is critical. Corrocoat's VEF & Fluiglide provided the perfect solution for this carbon steel prover loop in the Middle East. Corrocoat's pipe blaster and sprayer are designed and manufactured in house to match the requirements of Corrocoat materials.



Oil Refinery Underground LP Gas Bullet

Industry: Oil & Gas
Product: Polyglass VEF
Expertise: External coating of tanks and pressure vessels

These bullets are buried in chloride rich coastal soil in a high rainfall area and the refinery found other coatings blistered within 5 years due to Cathodic disbondment. Polyglass VEF was selected and two coats to a thickness of 1500 microns was sprayed to the external of each bullet.



Sea Water Impeller

Fluiglide Reduces Friction & Increase Efficiency

Industry: Oil & Gas
Product: Fluiglide & 600 Series
Expertise: Energy Efficiency

This bronze impeller was severely corroded from the sea water environment and required considerable rebuild work using 600 series and Kevlar matting. The outer faces of the impeller were coated with 200 microns of Fluiglide giving it a smooth finish thereby increasing pump efficiency and reducing power consumption.



Stainless Steel Portable Chemical Storage Tanks

AR4 Replace Failed Lining

Industry: Petrochemical
Product: AR4 & Post Curing
Expertise: Internal Lining of Tanks

The original lining on these portafeeds had failed so Corrocoat were called on to provide a suitable solution. More than 300 potafeeds have been coated with AR4 and the customer remains satisfied with the increase in life expectancy of the new coating. A combination of 4 coats, 2 spark tests and post curing was used to achieve the desired protection.



Corrosion Protection of Fan

Designed For Use In Aggressive Conditions

Industry: Process
Product: 600 series & Plasmex ZF
Expertise: Coating Plant & Equipment

This unit was developed for use that incorporated 1% hydrochloric acid, 500ppm monochlorobenzene and moist air at 30°C. Corrocoat 600 series was used for the internal lining and impeller and two coats of Plasmex ZF used on the fan externals.
