

CORROCOAT USA

Tel: (904) 268 4559
Website: www.corrocoat.com

Case Studies: Tanks



Ravensthorpe Nickel Project

Multiple Tanks & Thickeners up to 42 metres Diameter

Industry: Mining
Product: Polyglass VEF & Corrothane XT
Expertise: Internal Tank Lining

The Ravensthorpe Nickel project involved the lining of 53 tanks over a 20 month period. A total area of 36,634 m² was coated requiring 75,000 litres of Corrocoat material. Corrocoat products were selected after years of testing by BHP and Corrocoat's R&D chemists in the UK.

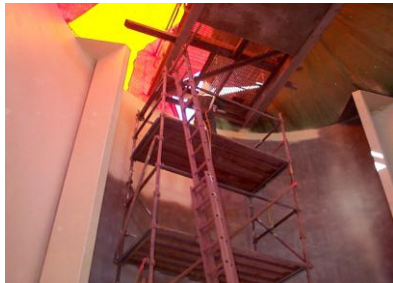


Power Industry

High Temperature Protection in a Desulphurization Plant

Industry: Power
Product: Polyglass VEF & Corrothane XT
Expertise: Internal Coating Of Tanks And Pressure Vessels

Following the failure of an Epoxy coating after 3 years Corrocoat were asked to refurbish the internal coating of the absorber. XT was used on the upper areas where working temperatures were close to 200°C and VEF was used on the remainder of the absorber.



Roxby Downs

Leach Tanks

Industry: Mining
Product: Polyglass VEF
Expertise: Internal Tank Coating

In 1998 extensive testing was conducted to find a replacement lining for failing 6mm rubber lining in the Roxby Downs leach tanks. Polyglass VEF at 1mm thick was selected and applied by Corrocoat and the coating has operated without fault since that time.



Steel Making Industry

Blast Furnace Water Treatment Plant

Industry: Manufacturing
Product: Polyglass VEF
Expertise: Internal Coating of Clarifier

The process environment is seawater with traces of ammonia and sulphuric acid with a pH of 7 to 8.5 at 50°C - 82°C. The high chloride content at elevated temperatures results in rapid corrosion of steel tank and components. Polyglass VEF was used to eliminate all corrosion issues.

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CIL Tanks

Tank Corrosion and Sulphate Reducing Bacteria (SRB,s)

Industry: Mining
Product: Polyglass VEF
Expertise: Internal Tank Coating

This is one of 7 CIL tanks that were suffering from SRB's and associated corrosion under the original coating. The old coating was removed and the tanks and baffles coated with 1200 microns of Polyglass VEF which is totally unaffected by SRB's. All corrosion issues were eliminated.



Aluminium Refinery

Internal Lining of 3 Acid Tanks

Industry: Mining
Product: Polyglass VEF
Expertise: Internal Lining Of Tanks, Baffels And Agitator

Three tanks containing varying concentrations of seawater, H_2SO_4 , Na_2CO_3 , Lithosolvent and NaOH at $80^\circ C$ were coated with 1000 microns of Polyglass VEF to provide corrosion protection to the carbon steel tanks, roof, baffles and agitators.



Chemical Road Tanker

Chemical Manufacturer

Industry: Chemical
Product: AR4, AR Veil coat & ZIP E
Expertise: Tank Coating

This tanker is used for the transport of caustic liquids at 55% concentration and was suffering both internal and external corrosion. Corrocoat was asked to provide suitable internal protection to the tanker, baffles and bund area, as well as external corrosion protection and a high gloss finish. The surfaces exposed to the caustic were coated with AR4 and AR Veil coat while the external was coated with Zip E and a decorative paint.



Steel Making Industry

Venturi Scrubber— Victoria

Industry: Process
Product: Polyglass VEF, VE & 600 series
Expertise: Internal Coating of Tanks and Pressure Vessels

Prior to Corrocoat's involvement this critical pressure vessel required repairs every 6 months due to corrosion and leaks. The vessel was repaired and internally lined with Polyglass VEF to a thickness of 1.5mm and has remained corrosion free for over 9 years.



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.