RL 500PF for Exhaust Stacks external corrosion

Industry: Co-generation & Gas
Date: November 2010
Substrate: Mild Steel
Products: Epo-Chem RL 500PF – Surface and moisture tolerant zinc rich epoxy
Environment: Methane gas co-generation plant exhaust stack trials.

Challenge: 15 year old plant was showing signs of premature corrosion within 3-4 years of commissioning. Spark free surface preparation was a strict requirement. Plant outage was not possible and work was required to proceed whilst online with an estimated 105degC on the surface.

Chemco's Solution: Chemco’s application of wet & surface tolerant coatings was carried out with minimal disruption to the everyday activities with an expected life in excess of 10 years before any signs of corrosion are visible.

Scope: Mobilize to site and work in with plant maintenance personnel to ensure all risks are assessed and reduced where possible. Obtain safe access and mechanically clean, using a wire brush only. Application of 2 coats of RL500PF with a nominal DFT of 300µm

Results: Many other coatings were trialled and failed within a 3 month period. The site has been revisited many times over the past 5 years with no signs of coating failure. Plant Maintenance Engineers are pleased with the results and look forward to solving other corrosion issues.