

Client: <i>Offshore Platform</i>	Industry: <i>Offshore</i>
Scope: <i>Stainless steel piping</i>	Date: <i>November 2012</i>
Location: <i>Gulf of Mexico</i>	Product: <i>Epo-chem™ RL 500PF</i>

Overview

The operators of an offshore platform in the Gulf of Mexico were dissatisfied with the performance of the coating system they were utilising for stainless steel pipes. As a result, new paint trials for two alternative coating systems against the current system were to be carried out.

Challenge

The coating systems had to have high adhesion to the stainless steel substrate, with minimal surface preparation. Application would be carried out in adverse weather conditions and in very high humidity.

Solution

For accurate comparisons to be compiled, the surface preparation method (mechanical) and application conditions were to remain constant for all three systems.

Chemco's unique **wet & rust tolerant** primer/finish **Epo-chem™ RL 500PF** was applied to the mechanically prepared surface in one coat. The current system was applied in three coats, whilst the other alternative system was applied in two coats.

Outcome

The **Chemco** system was applied in the shortest time and offered the longest pot life. There are also no humidity or dew point restrictions with the **Chemco** system. Upon completion of the trial, the client stated that their product of recommendation would be **Chemco's** **Epo-chem™ RL 500PF**. After two years of service the project was inspected and the coating inspector stated that the **Chemco** system was still in perfect condition.

Continued overleaf

Coating Comparison Table

	Chemco System	Alternative System	Current System
Application Method	Brush and roller	Brush only	Brush and roller
Number of Coats	1	2	3
Working Pot Life	60-90 mins	30-60 mins	1st: 30-80 mins 2nd: 4 hours 3rd: 4 hours
Overcoat Times	Min. 5 hours to unlimited	Min. 2.5 hours	1st: 9-18 hrs 2nd: 4-8 hrs
Humidity/Dew Point Limitations	No humidity or dew point restrictions	Max: 85% Steel temp: 5.C higher than dew	Max: 85% Steel temp: 5.C higher than dew
Application Time	45 mins	1 hr	3 hrs
Ease of Application	Easy to apply	Hard to Apply	Easy to Apply

Benefits

- Wet & rust tolerant properties of Chemco system
- Application in any environmental conditions
- Primer/finish in one coat
- No humidity or dew point restrictions
- No over-coating limitations
- Reduced application time

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Photographs

- Nos. 1 and 2 After application on vertical and horizontal pipelines

- Solvent-free • Water-based • Wet-tolerant
- Rust-tolerant • Zero VOC
- Tank & Pipe Linings • Under-water & Marine • Glassflake
- Rust Converters & Primers • Ceramic & Metal Repair • Anti-static, Conductive & Anti-slip Flooring
- Approved for Contact with Food, Drinking Water & Beverages • Damp or Green Concrete Primers
- Concrete Repair Systems • Elastomeric System
- High Temperature Systems • Fire Retardant • Insulation Systems

East Shawhead Industrial Estate
 Coatbridge ML5 4XD
 Scotland United Kingdom

Tel: +44 (0) 1236 606060

Fax: +44 (0) 1236 606070

Email: sales@chemcoint.com

Web Site: www.chemcoint.com

