

# Case Study



<b>Client:</b> <i>Transocean</i>	<b>Industry:</b> <i>Marine</i>
<b>Vessel:</b> <i>Rig Harvey H Ward</i>	<b>Date:</b> <i>December 2009</i>
<b>Location:</b> <i>Sembawang Shipyard, Singapore</i>	<b>Product:</b> <i>Epo-chem™ RS 500P</i>

## Overview

Transocean required to refurbish ballast tanks (over 12,000m<sup>2</sup>) from a soft coating to a hard coating finish as part of the classification. The application had to be environmentally friendly. Chemco was able to utilise **Epo-chem™ RS 500P solvent-free, wet tolerant** that can be applied without the need of dehumidification equipment making the project more cost effective.

## Challenge

Classification Societies are insisting on a measurable DFT on top of steel for corrosion protection. Soft coating to be replaced with hard coating.

## Solution

The Shipyard and Transocean were interested in **Chemco 500 Series**, a system that was 100% environmentally friendly for both the tank cleaning and the subsequent coating system.

## Outcome

The tanks were high pressure washed for removal of soft coating. The resulting substrate, and with the high humidity prevailing, **Epo-chem™ RS 500P solvent-free, wet & rust tolerant** epoxy system was applied in two coats to a DFT of 300µ. Adhesion tests were taken to assure the owners of the excellent adhesion (min 1,200psi) of the system. The system was guaranteed for long-term in-service use.

## Benefits

- Solvent-free
- Client approval
- Shipyard work-rate was not affected
- Reduced H&S and Fire Precaution
- Reduced cost of plant and equipment
- Application can be carried out in very high humidity or on wet substrate
- Chemco International system will protect the steel substrate in excess of 10 years

Continued overleaf

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### Photographs:

- No. 1 Ballast tank after UHP washing
- No. 2 Ballast tank after the application of Rusteco Gel
- No. 3 Ballast tank after wash-off UHP
- No. 4 Ballast tank after application of **Epo-chem™ RS**

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- 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

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