

<b>Client:</b> <i>Crude Oil Tanker</i>	<b>Industry:</b> <i>Marine</i>
<b>Scope:</b> <i>Ballast Tank Refurbishment</i>	<b>Date:</b> <i>December 2015</i>
<b>Location:</b> <i>Mediterranean Sea</i>	<b>Products:</b> <i>Epo-chem™ RS 500P &amp; RA 500M</i>

## Overview

A crude oil tanker required to return to charter before all of the scheduled ballast tank maintenance work could be completed during the vessel's dry-docking. The remainder of the work would therefore be undertaken by a riding squad and the ship's crew whilst the vessel was at sea.

## Challenge

Grit blasting could not be considered due to its extensive equipment requirements and H&S concerns. Therefore utilising water jetting and a compatible **wet & rust tolerant** coating system was the only possible solution. This is an innovative solution which is uniquely only offered by **Chemco**. There could also be no disruption or danger to the operating tanker.

## Solution

The WBTs were prepared by high pressure water jetting. Mechanical methods were also utilised to remove the majority of the heavy rust/scale. One stripe coat and one spray coat of **solvent-free, wet & rust tolerant epoxy Epo-chem™ RS 500P** were applied to the areas of existing steel suffering from corrosion damage. For areas where shop primed steel plates were inserted, one primer coat of **Epo-chem™ RS 500P** was applied, followed by one stripe coat and one topcoat of **solvent-free, wet tolerant, glassflake epoxy Epo-chem™ RA 500M** in accordance with IMO standards.

## Outcome

The riding squad and ship's crew successfully completed the remaining maintenance work within 14 days. Substantial time and cost savings were achieved by utilising this innovative solution offered by **Chemco**. The execution and completion of this project was only possible due to the unique combination of water jetting and the **wet & rust tolerant** characteristics of **Chemco** products **Epo-chem™ RS 500P** and **Epo-chem™ RA 500M**.

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### Photographs:

- No. 1 Mechanical preparation
- No. 2 After water jetting
- No. 3 After applying RS 500P on wet & rusty surface

## Benefits

By utilising this revolutionary coating system, the following benefits were achieved by the workmen and vessel owners:

- Solvent-free
- Wet & rust tolerant
- No requirements for grit blasting
- No requirements for dehumidification or ventilation
- No disruption to normal operating service of the vessel
- No requirements for dry-docking
- Reduced H&S and Fire Hazard
- No humidity or dew point restrictions
- Ballast possible after 4-8 hours - Coatings can 'continue to cure' underwater
- No overcoating limitations
- Compatible with almost all coatings, including shop primer

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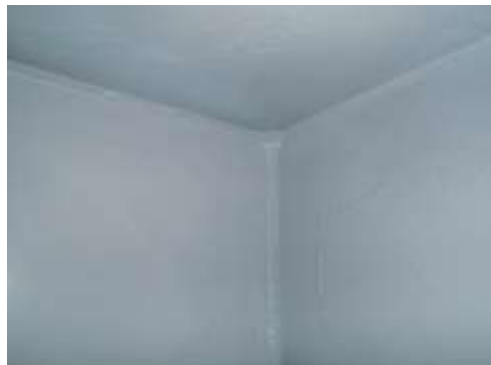
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### Photographs:

- Nos. 4-5 After stripe coating
- No. 6 Applying RA 500M on wet surface
- Nos. 7-8 Completed application

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