



Client:	Stephenson Clarke Shipping	Industry: Marine
Vessel:	Dallington Bulk Carrier	Date: 2005, 2007 & 2010
Location:	UK	Product: Epo-chem™ RA 500M

Overview

Stephenson Clarke manage and own a fleet of bulk carriers which require fast re-fitting program to meet with the charterers' requirements. They required a fast refurbishment of ballast tanks and holds in the Dallington in order to retain class.

<u>Challenge</u>

Historically, Stephenson Clarke had utilised solvent-based paint systems for their ballast tanks and cargo holds. Preparation to Sa2.5 by dry-grit blasting and subsequent humidity and temperature controls to maintain ideal painting conditions is both tedious and expensive. This, combined with the strict adherence to re-coating intervals of conventional paints, leads to slow return to service. Stephenson Clarke required an alternative system to fast forward their re-fit programs; based on their experience, they chose the revolutionary Chemco wet-tolerant systems.

Solution

Epo-chem™ 500 Series, solvent-free, wet tolerant, single coat was specified. The preparation was high-pressure wash to WJ-3, followed by application of one coat of Epo-chem™ RA 500M @ 250μ DFT. RA 500M is FDA approved for the carriage of foodstuffs. The same coating was used in the ballast tanks after high-pressure washing (800 bar).

Outcome

A total area of over 10,000m² was coated, ballast tanks were ready in 24 hours and cargo tanks in 72 hours to be put back into service. The total project cost was estimated to be 30% lower than the normal conventional system of grit blasting and painting. Additionally, the vessel was back in service and earning revenue much quicker than it would have been if solvent- based paint had been used due to the reduction in preparation, equipment, staging and de-staging and fast cure of the **Chemco** system.

Continued overleaf

Benefits

- Vessel back in service significantly faster
- Greatly reduced H&S and Fire Precaution
- Vastly reduced environmental impact
 - No grit blasting
 - No requirement for de-humidification
 - No extra ventilation requirements
 - No requirement for heating
- Project cost reduced by 30% versus traditional paints
- Chemco International system will protect the steel substrate in excess of 10 years

Follow up in 2007 & 2010

During re-fit operations in 2007, the Superintendent-in-charge and Lloyds Register's representative inspected the fore-peak and aft-peak tanks which had been coated with Epo-chem™ RA 500M in 2005 and stated that these tanks were in excellent condition. Further inspection in 2010 showed no deterioration (see photographs Nos. 2, 3 and 4 on page 2). No maintenance required from 2005 until 2012 in all areas coated with Epo-chem™ RA 500M.

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Photographs:

 No. 1 Surface in tank 2005, prior HP Wash

 Nos. 2-4 Tank condition after 5 years

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