

Client: <i>Royal Navy</i>	Industry: <i>Marine</i>
Vessel: <i>Navy Vessel</i>	Date: <i>November 2008</i>
Location: <i>UK</i>	Products: <i>Epo-chem™ RA 500M & RS 500P</i>

Overview

The Royal Navy required an environmentally friendly coating for one of their vessels in UK and asked Chemco to specify a solution.

Challenge

The Royal Navy required a fast re-fitting program for their vessel in a UK port. Water, sewage, sea water ballast tanks and ballast bilge areas, along with non-slip deck coatings, had to be carried out in an environmentally friendly way i.e. no grit blasting or solvent-based systems allowed.

Solution

The only viable solution was to use water jetting as the surface preparation method followed by application of a **wet & rust tolerant** system. High pressure water wash @ 500 bar was used to remove all contaminants to a WJ4 standard; followed by application of a special primer **Epo-chem™ RS 500P solvent-free wet & rust tolerant** system @ 100μ and one coat of **Epo-chem™ RA 500M solvent-free, wet-tolerant** glassflake topcoat @ 200-250μ DFT.

Outcome

The on time completion of the work was to the total satisfaction of the customer and was passed by all relevant authorities. Due to the ease and the quality of work carried out, subsequent orders from the Royal Navy have materialised. Not only the quality and long-term corrosion protection of the system was significant, but the minimal environmental impact has become of major interest to this and many other shipyards throughout UK; many contracts can now be carried out where it would not have been possible using conventional methods and paints; strict local environmental legislation no longer allows such activities.

Benefits

- Solvent-free
- No grit blasting, ventilation or dehumidification
- 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

Continued overleaf

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Photographs:

- Nos. 1-2 Ballast Tank Before and After Application

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Photographs:

- Nos. 3-4 Ship Deck Before and After Application
- Nos. 5-6 Void Space Before and After Application