

Thruster Tunnel - protection

Application:	Welding Seams protected against erosion / corrosion.
Place:	Southampton, UK
Date:	May 2012
Job and report done by:	Local technician
Wencon products recommended:	Ceramic Coating, Cleaner, app. tools



Most common arising problems in these tunnels, are bimetallic corrosion in the welding zones, beside the stainless steel ring and in the tunnel. Please keep in mind that Wencon will not bring any technical strength back, therefore it is recommended to re-weld attacked areas before protection. The bi-metallic element arises between the iron and the stainless steel, and coating must be laid approximately 10 cm. in on the rust-free belt, and outwards.

In this case, our customer had major problems in the welding zones, and repeatedly re-welded all weld's during dockings. An expensive and time-consuming job, which was necessary to perform each time vessels docks.

Solution: protect the welding zones, hereby re-welding will not longer be required by ducking's
Cost-effective & preventive maintenance.

1. Damage after bi-metallic corrosion & erosion. Damages re-welded in order to obtain the physical strength in the construction.



2. All areas to be protected, are grit blasted and degreased in Wencon Cleaner, before any further products are applied.

Standard SA 2.5 to a minimum of 75 microns gravity.



3. First layer of Wencon Ceramic Coating applied. The two layers of Coating shall be applied wet in wet. Second layer just after first layer has semi cured, but still tacky.



4. While first layer is still tacky, second layer is applied to a final thickness of 600-700 microns.



5. Welding seams are now protected to avoid re-welding by next dry docking.



6. Depending on the propeller's daily operating conditions, partial re-protection might be necessary, at next dry docking.

