

Galvanic Corrosion on a Flange Solved by Belzona

ID: 7876

Industry: Fluid Flow

Customer Location: Italy

Application: VPF-Valves, Pipes and Fittings

Application Date: November 2016

Substrate: Aluminium

Products: * Belzona 1161 (Super UW-Metal) ,

* Belzona 5831 (ST-Barrier) ,

Problem

Dissimilar metals were used for the flange connection, leading to galvanic corrosion.



Photograph Descriptions

- * 1. Corroded flange. ,
- * 2. Surface preparation complete. ,
- * 3. Rebuilding with Belzona 1161. ,
- * 4. Coated with Belzona 5831. ,

Application Situation

Internal equipment of a naval vessel carrying sea water for the cooling system.

Application Method

The application was carried out in accordance with a modified version of Belzona Know-How System Leaflet VPF-13.

Belzona Facts

The alternative options were to weld and machine back to the original surface, however this option was not chosen as it would not have solved the issue of galvanic corrosion. The second option was to replace the connecting flange using a part made from aluminium. However, this proved to be a costly option. The Belzona solution prevents galvanic corrosion and repairs the damage without the need to replace any parts, saving the customer time and money.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

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EMS 695213

Management System.

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