GALVANIC CORROSION ON A FLANGE SOLVED BY BELZONA

ID: 7876


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

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.

INDUSTRY
Fluid Flow

LOCATION
Italy

APPLICATION DATE
Novmber 2016

PRODUCTS
Belzona 1161 (Super UW-Metal)
Belzona 5831 (ST-Barrier)

SUBSTRATE
Aluminium

PHOTOS
1. Corroded flange.

2. Surface preparation complete.

3. Rebuilding with Belzona 1161.

4. Coated with Belzona 5831.