BELZONA PLATE BONDING APPLICATION HELPS A MILITARY VESSEL DEPLOY ON SCHEDULE

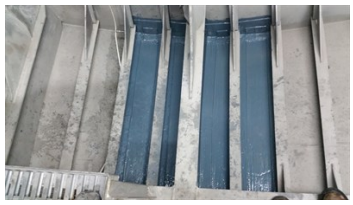
ID: 7686

Industry: *Military*
Application: *SOS-Ships and Offshore Structures*
Customer Location: *USA*
Application Date: *2017*

Substrate: *Aluminum*
Products: ** Belzona 1111 (Super Metal) ,*
** Belzona 1321 (Ceramic S Metal) ,*

Problem

Water was leaking into two compartments, located against the aluminum hull of the ship (approximately 400 Square Feet of total repair area). The shell of the hull and stiffeners in the spaces were corroding from salt water, which was collecting in lower reaches of the space. The corrosion had progressed to the point that the water was leaking and traveling into adjacent hull locations. Stitch welding of the vertical stiffeners to the shell was hiding much of the corrosion.



Photograph Descriptions

* 1. Showing damage caused by corrosion. 2. 1st coat of Belzona 1321 applied. 3. Doubler plates embedded with Belzona 1111. 4. Complete application. ,

Application Situation

Aluminum hulled pontoon ship

Application Method

The application was carried out in accordance with a modified version of Belzona Know-How System Leaflet SOS-1, SOS-2. Belzona 1111 was applied to prepared substrate and prepared plates – to bond doubler plates to the shell, the bulkhead and into the corners with 90 Degree angle plates. A top coat of Belzona 1321 was applied to all repair areas – to allow for easier inspection of the repairs and to provide a more professional appearance of the completed repair area.

Belzona Facts

The proposed repairs were completed in less than two (2) weeks and more importantly, while the ship was in port and docked (ship was not required to be dry docked, in order to make the repairs). The ship was able to meet its scheduled deployment plans. After the 4-month deployment the application was found to be in perfect condition.

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213
Belzona products are manufactured under an ISO 9000 Registered Quality Management System.

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