

BELZONA SEALS AND PROTECTS RISER NEOPRENE SLEEVE INTERFACE

ID: 5895

Industry: Oil & Gas
Application: SOS-Ships and Offshore Structures

Customer Location: Gulf of Mexico, USA
Application Date: September 2015

Substrate: Carbon Steel
Products: * Belzona 2211 (MP Hi-Build Elastomer) ,
* Belzona 2131 (D & A Fluid Elastomer) ,
* Belzona 2921 (Elastomer GP Conditioner) ,
* Belzona 9341 (Reinforcement Tape) ,
* Belzona 9111 (Cleaner Degreaser) ,
* Belzona 1121 (Super XL-Metal) ,

Problem

Poor adhesion of the neoprene sleeve on 3 risers allowed corrosion to develop between the sleeve and pipe wall, causing further deterioration of the riser. The asset owner required a suitable solution without downtime or loss of production.



Photograph Descriptions

- * Condition of neoprene sleeve and riser interface. ,
- * Neoprene sleeve cut back and surface preparation underway. ,
- * First coat of Belzona 2131 with Belzona 9341 installed. ,
- * Repair completed on 3 risers. ,

Application Situation

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

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

Belzona products are
manufactured under an ISO
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Repair • Protect • Improve

2", 4", and 6" riser/sleeve interface on offshore production platform.

Application Method

The application was carried out in accordance with a modified version of Belzona Know-How System Leaflet SOS-21. The neoprene sleeve was cut back to sound material and the surface was roughened. The metal surface was abrasive blasted and a skim coat of Belzona 1121 applied to fill pits. The repair area was treated with Belzona 2921 and allowed to dry. Belzona 2211 was installed at the sleeve and riser interface, and a taper was formed. Belzona 2131 was applied over the entire area and two layers of Belzona 9341 was embedded. A top coat of Belzona 2131 was then used to encapsulate the reinforcement.

Belzona Facts

The suitable solution for this asset owner was the ability of the Belzona system to be installed via rope access with no hot work, loss of production/downtime, and elimination of further deterioration of the riser.

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