BELZONA CORROSION PREVENTION ON PLATFORM RISER

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Industry:	Oil & Gas	Customer Location:	Oil company, North Sea, UK
Application:	SOS-Ships and Offshore Structures	Application Date:	August 2013

Substrate: Steel and Neoprene rubber cover

Products: * Belzona 1321 (Ceramic S-Metal) ,
* Belzona 2211 (MP Hi-Build Elastomer) ,

Problem

Corrosion was occuring at the top edge of rubber riser sleeve due to water ingress between rubber cladding and riser.
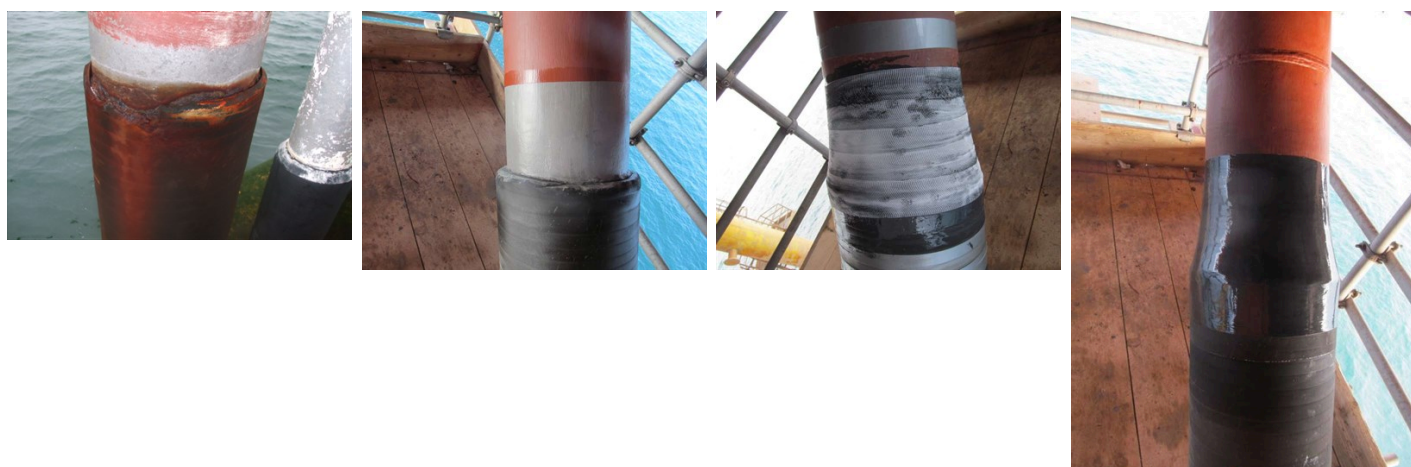
Photograph Descriptions

* Corroded riser ,
* Belzona 1321 applied to steel riser ,
* Belzona 2211 fillet applied to rubber/riser joint and over-wrapped with more Elastomer incorporating Belzona 9341 to add strength ,
* Application completed by applying further Belzona 2211 to encapsulate the joint interface and provide a waterproof seal. ,

Application Situation

Corroded riser on offshore oil production platform

Application Method

Application was completed in accordance with Belzona Know-How System Leaflet SOS-21. After completing the surface preparation, Belzona 1321 was applied to the exposed steel riser. A second coat blended with Belzona 9231 aggregate was applied to provide a perfect bond between Belzona 1321 and Belzona 2211, which was applied to seal the junction between neoprene

cladding and the riser. Belzona 9341 (Reinforcement Tape) was incorporated into Belzona 2211 to increase toughness and durability.

Belzona Facts

The repairs were carried out with the riser fully operational as no hot work was required. The Belzona system provides both corrosion protection direct to the metal riser and seals junction between rubber cladding and riser creating a tough flexible waterproof seal to prevent future corrosion at this traditionally vulnerable point.