

# BELZONA SUPERWRAP II ENSURES THE SAFETY OF AN OFFSHORE PLATFORM

ID: 5666

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

Customer Location: Oil & Gas Industry, Offshore, USA  
Application Date: May 2015

Substrate: Carbon steel  
Products: \* Belzona 1121 (Super XL-Metal) ,  
\* Belzona 1982 ,  
\* Belzona 9111 (Cleaner Degreaser) ,  
\* Belzona 9382 ,

## Problem

*The integrity of the riser was compromised due to severe damage caused by external corrosion. The asset owner needed to protect the surface of the riser without any interruption to the operation. Hot work was not an option.*



## Photograph Descriptions

- \* Belzona 1121 applied to fill pitting ,
- \* Four wraps (8 layers) of Belzona 1982 applied ,
- \* Belzona 9382 applied to consolidate repair during cure ,
- \* Complete application - Belzona Superwrap II repair overcoated with Belzona 1121 prior to application of urethane topcoat ,

## Application Situation

6" diameter riser on an offshore platform.

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

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## Application Method

The substrate was grit blasted to produce a surface cleanliness of SSPC-SP 10 (Near White Metal) with an anchor profile of at least 3 mils (75 microns). The surface was then cleaned and degreased and the condition of the blasted surface was maintained until the application of the repair system. Belzona 1121 was used to fill pitted areas and to restore the original pipe thickness. Belzona 9381 was saturated with Belzona 1982 and applied onto the pipe in 4 wraps (8 layers) in compliance with the engineered design. To consolidate the repair during the curing process, Belzona 9382 was employed. After 24-hour cure, Belzona 9382 was removed. The surface of the cured Superwrap II was washed and sanded, and the pipe was overcoated with Belzona 1121 prior to application of a urethane top coat.

## Belzona Facts

The application was carried out without any disruption to the operation of the platform. The repair and application of Belzona Superwrap II was completed in less than 7 hours, in addition to the 24 hours for the system to cure.

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