

Belzona Protects Pipelines on Offshore Platform

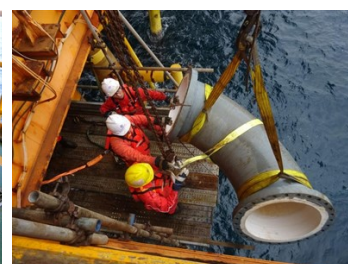
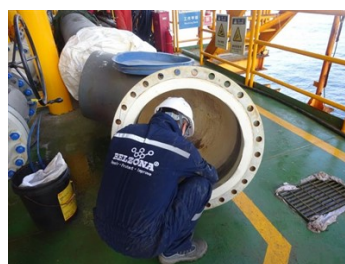
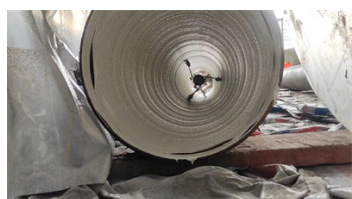
ID: 9166

Industry: Marine
Application: VPF-Valves, Pipes and Fittings
Substrate: Carbon steel
Products: Belzona 1331

Customer Location: Shanghai
Application Date: May 2023

Problem

The inner coating of the original marine discharge pipeline has been in service for 8 years. The inner coating of the elbows and straight pipes has failed and the seawater pipe wall has become thinner. The customer requires a coating that is resistant to seawater corrosion and has high wear resistance.



Belzona 1331 is being sprayed inside the pipeline

Spraying application completed

Inspect the surface profile after surface preparation of welded flange.

Pipe installation

Application Situation

Pipe internal spraying was carried out in the onshore workshop, and flange welding is carried out on the offshore platform which means that there was also coating repair work on offshore platforms. Operating condition: seawater; normal temperature and pressure.

Application Method

Application was carried out with an adapted version of Belzona System Leaflet VPF-02. The inner linings of pipes and elbows are applied with Belzona products using spraying guns and brushes.

Belzona Facts

The main challenge of this project lies in the spraying process within the pipeline, given the diverse inner diameters of the pipes. Each type necessitates adjusting the output pressure of the sprayer to regulate the flow rate of the spraying material. Additionally, controlling the rotating nozzle to traverse the pipe at a consistent speed is crucial. This, coupled with the need to manage the spray film thickness, makes the project much more difficult.

The use of Belzona products not only extends the service life of pipelines but also offers cost savings. This approach not only reduces material costs compared to using stainless steel pipes but also minimises the time and frequency of production downtime. Consequently, it results in substantial cost savings for customers by reducing downtime-related expenses.

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

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