

# 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.

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

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Management System.

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