

# Offshore Heat Exchanger Maintenance with Belzona.

ID: 8580

Industry: Oil & Gas

Application: HEX-Heat Exchangers

Substrate: Carbon Steel

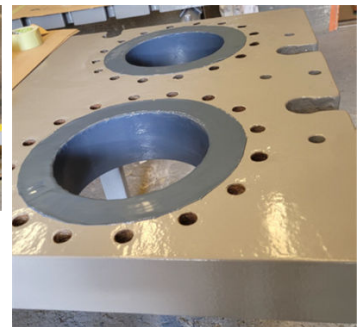
Products: \* Belzona 1511 Super HT Metal ,  
\* Belzona 1391S ,  
\* Belzona 1391 Ceramic HT ,

Customer Location: Workshop Westcoast Norway

Application Date: August 2021

## Problem

Existing titanium bushings had caused severe bimetallic corrosion on the carbon steel endplate surfaces. The titanium bushing endplate surfaces was in urgent need of rebuilding and protective coating. Design Temperature 90 °C.



## Photograph Descriptions

- \* 1. Corroded area ,
- \* 2. Corroded areas rebuilt using Belzona 1511 ,
- \* 3. Endplates coated with Belzona 1391S (Spray applied 2 coats a 375µm) and prepared for forming new bushings with Belzona 1391 Ceramic HT using metal formers. ,
- \* 4. Complete application ,

## Application Situation

Severe bimetallic corrosion to offshore heat exchanger endplates.

## Application Method

The application was carried out in accordance with Belzona System Leaflet HEX-03. Following removal of existing titanium bushings the endplates was gritblasted to SA 2,5 and 75µm surface profile. All corroded area was rebuilt in stages using Belzona 1511 Super HT Metal. Belzona 1391S was spray applied in 2 coats a 375µm. New bushings was applied/installed with Belzona 1391 Ceramic HT using custom made formers

## Belzona Facts

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  
9000 Registered Quality  
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Repair • Protect • Improve

This customer were looking at 3 options here. 1. Produce and replace both endplates. (Expensive and time consuming solution) 2. Reinstall new titanium bushings. (Expensive solution without solving the actual problem.) 3. Repair and protect the endplates using Belzona. The Belzona solution was found very cost effective and the equipment was repaired and returned to the customer within a week.

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