

# BELZONA TAKES THE HEAT IN EXCHANGERS

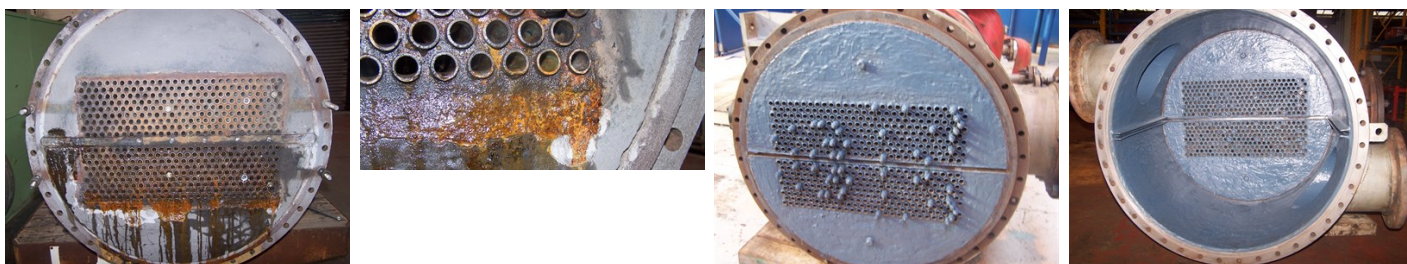
ID: 6072

**Industry:** Chemical & Petrochemical  
**Application:** HEX-Heat Exchangers  
**Substrate:** Carbon Steel  
**Products:** \* Belzona 1511 (Super HT-Metal) ,  
\* Belzona 1593 ,

**Customer Location:** Petrochemical Plant, Teesside, UK  
**Application Date:** 2016

## Problem

*The brine heat exchangers operate at up to 138°C and are prone to rapid corrosion. The water box, separator channels and tube face had all suffered extreme corrosion and the separator plate was being bypassed.*



## Photograph Descriptions

- \* Condition 1 year after previous coating was applied. ,
- \* Damage and failure close up. ,
- \* Tube face separator channels rebuilt. ,
- \* Protected heat exchanger being reassembled. ,

## Application Situation

Brine Heat Exchanger

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets HEX-1, HEX-2 and HEX-3.

## Belzona Facts

The customer had tried several materials previously on these heat exchangers and because of the severely corrosive and elevated temperature service conditions, none had lasted more than a year or two. Belzona 1593 is designed for permanent immersion conditions up to 160°C and so it was the ideal coating to protect all parts of this asset.

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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