

# BELZONA REPAIRS AND PROTECTS CORRODED SHELL

ID: 566

Industry: *Chemical & Petrochemical*

Application: *HEX-Heat Exchangers*

Substrate: *Carbon steel*

Products: *\* Belzona® Marine Metal ,  
\* Belzona® 1321 (Ceramic S-Metal) ,*

Customer Location: *Petrochemical facility, Egypt*

Application Date: *January 2004*

## Problem

*Shell and dished end were highly corroded due to chemical attack that resulted in critical wall thickness reduction in the shell.*



## Photograph Descriptions

- \* General view of the shell and cover. ,
- \* The corroded surface inside the shell. ,
- \* Forming the applied Belzona® Marine Metal. ,
- \* Belzona® Marine Metal rebuild successfully completed. Belzona® 1321 applied to provide overall corrosion protection. ,

## Application Situation

Heat exchanger shell

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets HEX-2 and HEX-3. Belzona® Marine Metal was used to restore the original dimensions then Belzona® 1321 was used to protect the restored area from any further corrosion.

## Belzona Facts

Repair completed quickly and safely, thickness of the shell was restored to the original dimensions with no heat and no special tools. As measured weekly, the vessel stopped losing wall thickness, resisting chemical attack and still in excellent condition.

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  
Management System.

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