

BELZONA REPAIRS AND PROTECTS CORRODED SHELL

CUSTOMER

Petrochemical facility, Egypt

APPLICATION DATE

January 2004

APPLICATION SITUATION

Heat exchanger shell

PROBLEM

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

PRODUCTS

Belzona® Marine Metal

Belzona® 1321 (Ceramic S-Metal)

SUBSTRATE

Carbon steel

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.

PICTURES

1. General view of the shell and cover.
2. The corroded surface inside the shell.
3. Forming the applied Belzona® Marine Metal.
4. Belzona® Marine Metal rebuild successfully completed. Belzona® 1321 applied to provide overall corrosion protection.



For more examples of *Belzona Know-How In Action*, please visit <http://khia.belzona.com>



ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

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