

BELZONA REPAIRS AND PROTECTS QUENCH TOWER

CUSTOMER

Petro Chemical Complex, Western India

APPLICATION DATE

2012

APPLICATION SITUATION

Quench tower suffering Corrosion Under Insulation (CUI).

PROBLEM

The tall carbon steel tower contains many trays and is insulated to prevent heat loss. Water penetration and condensation had led to severe CUI in many localised areas. The thickness of tower walls had reduced by more than 50% in some areas.

PRODUCTS

Belzona® 1251 (HA-Metal)
Belzona® 5851 (HA-Barrier)

SUBSTRATE

Carbon steel

APPLICATION METHOD

Application was carried out in accordance with a modified Belzona Know-How System Leaflet TCC-5. Due to the hazardous area and live tower, scope of surface preparation was limited. Spark free tools were used to remove all loose corrosion back to a sand substrate. Belzona® 1251 was used to repair pitted areas, using doubler plates bonded over the most severely corroded areas. The tower was coated to prevent further corrosion using Belzona® 5851.

BELZONA FACTS

The application was completed over the course of 18 days using around 250kg of Belzona® 1251. The work was completed with the tower in continuous service and the client was confident with Belzona's solutions for such on-line CUI repairs and has subsequently placed a repeat order for the restoration and protection of 13 further towers.

PICTURES

1. Surface condition behind insulation at 7m height
2. Severe damage due to CUI
3. Application of Belzona® 1251
4. Completed rebuild with high temperature barrier coating Belzona® 5851 applied to prevent further corrosion



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