

# STRUCTURAL REINFORCEMENT TO NAPHTHA TOWER WITH BELZONA TECHNOLOGY

ID: 5577

Industry: Oil & Gas

Customer Location: Refinery, Brazil

Application:

Application Date: 2012

Substrate: Carbon Steel coated with fiberglass

Products: \* Belzona 1511 (Super HT-Metal) ,  
\* Belzona 1391 (Ceramic HT) ,

## Problem

Leaking naphtha due to the presence of holes in the inferior generatrix.



## Photograph Descriptions

- \* Naphtha leak at the lower generatrix ,
- \* Installation of the structural reinforcement of the cover with Belzona 1511 ,
- \* Structural reinforcement installed in the lower generatrix with Belzona 1391 ,
- \* Completed application ,

## Application Situation

Naphtha Accumulator

## Application Method

The surface preparation was carried out through abrasive blasting of the pre-fabricated parts and grinding of the fiberglass substrate and metal parts of the equipment. Then, Belzona 1511 was applied to the upper generatrix with a stainless steel reinforcement sheet for fastening the tie rods and sealing the plates of the lower generatrix. Belzona 1391 was injected in the lower generatrix for a better accommodation with regards to the peripheral imperfections of the fiberglass.

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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## Belzona Facts

The naphtha accumulator has been previously repaired with fiberglass, a procedure that was not effective and displayed holes in the fiber. Belzona guaranteed to enclose the system with an operating temperature of 115°C and operating pressure of 400 gf/cm<sup>2</sup>, exceeding several critical points, such as the location of the accumulator at the top of the tower at 86 m in height and hoisting 70 kg parts to the top. Inspection was carried out in February of 2015 and it was verified that the installed system is still working well.

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