

# Belzona Saves Refinery Millions

ID: 1039

**Industry:** Oil & Gas  
**Application:** TCC-Tanks and Chemical Containment Areas  
**Substrate:** Carbon Steel  
**Products:** \* Belzona® 1511 (Super HT-Metal) ,  
\* Belzona® 1591 (Ceramic XHT) ,

**Customer Location:** Oil Refinery - Tuscaloosa, AL USA  
**Application Date:** February 2008

## Problem

*Corrosive process fluids and elevated temperatures create an extremely aggressive corrosion rate. If corrosion was not addressed, this vessel would have gone under its minimum wall thickness and forced a shutdown.*



## Photograph Descriptions

- \* Abrasive blasted area ,
- \* Repaired area with Belzona® 1511 ,
- \* Application of Belzona® 1591 ,
- \* Finished application after pinhole testing ,

## Application Situation

Amine regeneration tower operating above 250°F in an environment containing hydrogen sulfide and diglycolamine.

## Application Method

Belzona® 1511 and Belzona® 1591 were applied in accordance with Belzona Know-How System Leaflet TCC-5.

## Belzona Facts

Possible repairs included a Belzona solution or clad welding the affected area. The Belzona solution required less than \$40,000 of product and labor and was completed in three days. The clad welding would have required \$100,000 of product and labor and more importantly 10 days. Because daily lost production costs were \$9,000,000, the Belzona solution saved the refinery over \$63,000,000!

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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