

# CORRODED PIPE REPAIRED WITH BELZONA!

ID: 5418

Industry: Chemical & Petrochemical

Customer Location: Petrochemical Plant, SE Texas, USA

Application: VPF-Valves, Pipes and Fittings

Application Date: May 2013

Substrate: Carbon Steel

Products:   
\* Belzona 1111 (Super Metal) for filling pits and gaps between bolts/nuts. ,   
\* Belzona 5831 (ST Barrier) to prep due to the potential of the pipe sweating. ,   
\* Belzona 4151 (Magma Quartz Resin) ,   
\* Belzona 9371 (Reinforcement) for wrap ,   
\* Belzona 5111 (Ceramic Cladding) for protection. ,

## Problem

Poor protection on the flange caused corrosion to the pipe and flange.



## Photograph Descriptions

- \* Before the application ,
- \* Sponge blasted and prepped with Belzona 5831 ,
- \* Belzona 1111 applied to all pits and gaps between nuts/bolts ,
- \* Belzona 5111 applied for corrosion and UV protection ,

## Application Situation

12-inch diameter Natural Gas line that supplies the entire complex of 3 separate plants.

## Application Method

Application was carried out in accordance with Belzona Know How System Leaflet VPF-11. After proper surface preparation Belzona

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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5831 with Belzona 9371 reinforcement tape were used in areas where potential pipe sweating could occur due to Belzona 5831's moisture tolerant capabilities. Belzona 1111 was then used to fill in the pits and gaps between bolts/nuts. A final coat of Belzona 5111 was used to protect the flange and pipe from further environmental attack.

## Belzona Facts

The customer needed a solution that would not only stop metal degradation but bring back some structural integrity while providing corrosion protection until 2016 when pipe replacement could be addressed during a site wide outage. Customer decided to use a Belzona solution thanks to a previous repair on a cooling tower pipe completed a previous month.

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