

## STRUCTURAL REINFORCEMENT OF PROCESS LINES WITH BELZONA SW II

### CUSTOMER

Brazil

### APPLICATION DATE

April 2019

### APPLICATION SITUATION

Compliant non metallic structural reinforcement repair on process lines.

### PROBLEM

Lines suffering from thin and through wall defects due to its internal corrosion process. Internal temperature was 20°C with pressures up to 0.15 MPa. Some areas showed thickness loss of more than 4mm compared to its original wall thickness of 12.7mm.

### PRODUCTS

Belzona 9611

Belzona 1111 (Supermetal)

Belzona 1981 (Superwrap II)

Belzona 9381 (Carbon Fiber Reinforcement)

Belzona 9382 (Release Film)

### SUBSTRATE

ASTM A53 Gr.B

### APPLICATION METHOD

Surface preparation performed in accordance with NACE 2(=ISO 8501-1, Sa 2 1/2), through dry abrasive blasting to white metal with Sponge Jet system. Average surface roughness achieved of 89 microns. After surface preparation and cleaning, Belzona 9611 was used for emergency leak sealing in some areas, followed by Belzona 1111 to fill pits and smooth out application area. Belzona SW II system was then applied over the repair area for structural reinforcement of the equipment.

### BELZONA FACTS

Repair done in accordance with ASME PCC2 and performed by trained Belzona designers and applicators. Repair designed for a 5 year long service.

### PICTURES

1. Application of Belzona SW II on elbow section
2. Application of Belzona SW II on T section
3. Application of Belzona SW II on straight section
4. Application of Belzona SW II on larger straight section



1.



2.



3.



4.

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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