

# Belzona restores structural integrity and stops leak.

ID: 8470

Industry: Power

Customer Location: Binary cycle power plant, Central north island, New Zealand.

Application: VPF-Valves, Pipes and Fittings

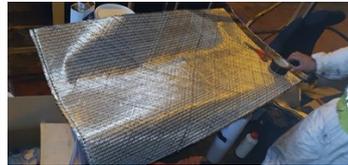
Application Date: December 2020.

Substrate: Steel

Products: \* Belzona 1161 (UW Metal) ,  
\* Belzona Superwrap II 1982 ,  
\* Belzona 9381 (SuperWrap II Reinforcement Sheet) ,  
\* Belzona 9382 (Release Film) ,  
\* Belzona 9111 (Cleaner Degreaser) ,

## Problem

Corrosion and thinning of the pipeline had failed on most welds. There was an area on a T-junction where the line was leaking extensively. Due to the awkward positioning of the pipe, welding was not possible.



## Photograph Descriptions

- \* 1. Badly damaged T-section of the pipe ,
- \* 2. Manually prepped surface ,
- \* 3. Application of Belzona Superwrap II ,
- \* 4. Final output ,

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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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## Application Situation

A requirement to repair a water line pipe. They required the application to last for five years.

## Application Method

The application was carried out as per the Belzona System Leaflet VP11 and Belzona Superwrap II method statement provided. In order for the products to adhere successfully to the substrate, we had requested the organization to divert the water supply from the pipeline. Once this was achieved, We had to manually prep the substrate. Belzona 1161 was used to rebuild the profile and stop the leak. After consulting the IFU for 1161, Belzona 1982 was used. The Belzona SuperWrap II release film was then wrapped over the repair and the left to cure.

## Belzona Facts

Replacement of new pipelines requires massive downtime operations, long application window, and on-site hot work which meant safety hazards. It wasn't economically feasible to replace the section. Belzona high-temperature coatings have been consistently used on-site to tackle various issues. After multiple site visits and presentations, Belzona super wrap was selected. The products ability to quickly restore the original strength of the pipeline without any operating downtime was a key factor in product selection. The previous repair had lasted a year after it was installed.

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