

# BELZONA SEALS TRANSFORMER MAIN FLANGE

ID: 5171

Industry: Power

Customer Location: Power Distribution Company, South Wales

Application: VPF-Valves, Pipes and Fittings

Application Date: May 2014

Substrate: Mild Steel

Products:   
\* Belzona 1221 (Super E-Metal) ,   
\* Belzona 1161 (Super UW-Metal) ,   
\* Belzona 5831 (ST-Barrier) ,

## Problem

The main flange was discharging high volumes of oil through the failing gasket system. In addition, the top and bottom bolt heads were also leaking. Continual tightening of the bolts over the years was no longer proving effective on the aged transformer. The Client sought a comprehensive, long term solution to seal the main flange and bolt heads.



## Photograph Descriptions

- \* Transformer location ,
- \* Preparation & cap fitting ,
- \* Cap removal ,
- \* Coating with Belzona 5831 to complete the application ,

## Application Situation

Transformer within electricity substation

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet VPF-11. Due to a strict outage period and to enhance full success, the Client dropped the oil level beneath the flange level and created the correct working habitat and heat source to reduce product cure time. The flange joint was sealed by applying Belzona 1161 & Belzona 9341 (Reinforcement Tape). The bolt heads were fully encapsulated using a disposable former containing Belzona 1161. Once cured the former removed and the prescribed areas coated with Belzona 5831.

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

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## Belzona Facts

The leak sealing application was successful and the transformer was duly placed back in service. The flange and bolt heads have shown no further signs of leaking. This has resulted in significant cost saving and eliminated any future risk to the local environment.

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