

# SF6 GAS LEAKS SEALED WITH BELZONA

ID: 4357

Industry: *Power*  
Application: *TCC-Tanks and Chemical Containment Areas*  
Substrate: *Mild Steel*  
Products: *\* Belzona® 2221 (MP Fluid Elastomer),*

Customer Location: *Ireland*  
Application Date: *October 2012*

## Problem

*Failure of the original sealant between the bolted flanges had resulted in loss of containment of the insulating SF6 gas, a potent greenhouse gas.*



## Photograph Descriptions

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- \* Bolted joints prior to application ,
- \* Surface Preparation carried out using a disc grinder and solvent cleaning ,
- \* Joints sealed with Belzona® 2221 coating ,
- \* Bolts were also encapsulated, completely stopping leakage of SF6 gas in all accessible areas ,

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## Application Situation

Gas insulated electrical switchgear

## Application Method

Application was carried out using a modified version of Belzona System Leaflet TCC-1. The equipment operator lowered the pressure inside the equipment prior to the application. The area was thoroughly cleaned and roughened before the flange and bolts were completely encapsulated with the Belzona® 2221 focusing on the gap between the bolted faces. Once cured, the equipment was re-pressurized and tested for leaks.

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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## Belzona Facts

With no other alternatives, the national energy supplier turned to Belzona to seal these leaks. The Belzona Distributor, Beltech, successfully sealed 95% of the leaks on this initial application with the remaining 5% inaccessible due to equipment design. The dramatically reduced gas losses resulted in massive cost savings to the client, reduced environmental impact and has led to further applications in these areas.

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