

# BELZONA SEALS FLANGE ON VACUUM DRYER

ID: 5986

**Industry:** Food & Drink  
**Application:** VPF-Valves, Pipes and Fittings  
**Substrate:** Mild steel  
**Products:** \* Belzona 5851 (HA-Barrier) ,  
\* Belzona 9341 (Reinforcing Sheet) ,

**Customer Location:** Food Process, Girvan, Scotland  
**Application Date:** November 2015

## Problem

A leak around the flange had developed, preventing a vacuum to be accurately maintained within the vessel. This was affecting the drying process and production. A solution to seal this leak around the flange was required without dismantling the equipment. When the vessel is in operation it runs at elevated temperatures.



## Photograph Descriptions

- \* Vacuum vessel ,
- \* 1st coat of Belzona 5851 applied with Belzona 9341 ,
- \* Application in progress ,
- \* Completed flange seal ,

## Application Situation

A large diameter (approximately 2m) flange on vacuum drying vessel.

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.

[www.belzona.com](http://www.belzona.com)

  
**BELZONA**<sup>®</sup>  
Repair • Protect • Improve

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet VPF-11 while the vessel was running at temperature. The surface temperature was maintained at 90 to 110°C. After preparing the substrate, Belzona 5851 was applied as a 3 coat system in conjunction with Belzona 9341. By drawing a vacuum from within the vessel, the Belzona 5851 material was actually pulled into the void areas before curing off. This ensured all the leak areas were attended to and sealed.

## Belzona Facts

Disassembly of the vessel would have been very difficult and time consuming. The Belzona solution was carried out in one day with minimal disruption to the plant workings around the area.

---

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.

[www.belzona.com](http://www.belzona.com)

