

# Autoclave Repair using Belzona Superwrap II

ID: 8881

**Industry:** Chemical & Petrochemical  
**Application:** VPF-Valves, Pipes and Fittings  
**Substrate:** Carbon steel  
**Products:** Belzona 1111 (Super-Metal),  
Belzona 1983 (Superwrap II Resin),  
Belzona 9381,  
Belzona 9382,

**Customer Location:** Netherlands  
**Application Date:** October 2022

## Problem

Leaks on the weld seam of the water-cooled jacket of this process vessel.



Initial condition



Plate bonding applied



Application of Belzona  
SuperWrap II



Complete application

## Application Situation

A composite repair was carried out on a process vessel in the chemical industry using Belzona SuperWrap II. In order to prevent further leaks and to extend the life of the process vessel.

## Application Method

Application carried out in accordance with a modified version of Belzona Know-How System Leaflet VPF-11. After blasting, the weak spots in the mantle are filled with the Belzona 1111 metal paste. Then the wrapping repair was carried out in at least 3 layers. The resin selected for this application is the Belzona 1983, because of the temperatures and the longer processing time. Belzona SuperWrap II is a composite repair that strengthens weaker metal structures on pipes and process vessels, mainly when applied on high-pressure systems.

## Belzona Facts

Due to the long lead times to renew the vessel, this customer has a solution that has influenced the production process as little as possible.

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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