

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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