

# BELZONA REFURBISHMENT OF FLASH VESSELS USING INJECTION TECHNIQUES

ID: 107

Industry: *General Industry*

Customer Location: *Nickel-Cobalt Refinery, Western Australia*

Application: *GSS-Gaskets, Seals and Shims*

Application Date: *1999*

Substrate: *Carbon Steel and Titanium*

Products: *\* Belzona® 1391 ,*

## Problem

*Vessel has a titanium insert in domed base and is also refractory brick lined. A void 1-20mm beneath insert allowed it to crack at start-up.*



## Photograph Descriptions

- \* General View of two flash vessels on Train 2 ,
- \* Work underway from inside ,
- \* Injection holes being drilled & tapped prior to injection from outside vessel ,

## Application Situation

Carbon steel flash vessels operating at 250°C and 20 bar pressure.

## Application Method

Application was carried out in accordance with Belzona System Leaflet GSS-9.

## Belzona Facts

Alternative to these Belzona applications was replacement with new Titanium vessels at a cost of nearly \$1 million. Belzona solution less than 1/10th the cost and completed to tight deadlines.

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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