

# Blast Enclosure given longer life

ID: 9477

**Industry:** General Industry  
**Application:** TCC-Tanks and Chemical Containment Areas  
**Substrate:** Carbon steel  
**Products:** Belzona 1321 (Ceramic S-Metal), Belzona 9111 (Cleaner Degreaser)

**Customer Location:** Peterborough  
**Application Date:** June 2024

## Problem

The steel wall plates of the blast enclosure were naturally wearing away by the internal blasting process. This would lead to through-wall and escaping blast media and dust. Eventually the line would have to be stopped and the plates replaced, causing downtime and manpower resource requirements. There was also a cost issue with continually buying new parts



External of the blast enclosure in situ



Internal view showing the totally worn away side plates where debris, dust and blast media can escape



New plates, provided by the customer, were blast cleaned to Belzona 1321 prep spec



Showing the plates following the application of 2 x colours of Belzona 1321 Ceramic S Metal

## Application Situation

The wearing away of the plates were causing the engineers many issues, including a serious Health and Safety risk from flying debris. It was decided to apply two coats of Belzona 1321 Ceramic S metal and have the asset checked at regular intervals. This was with a view to looking out for the base colour showing through the second layer, whereby the engineers on site had agreed to prep up the worn areas and overcoat with more of the second layer, thereby allowing the engineers a visual indicator and a window of opportunity to continually re-treat the most affected areas and save having to take the enclosure apart to rebuild it with new.

## Application Method

New steel parts were delivered to Belzona UK in Hawarden  
The plates were grit blasted to the IFU specs of the Belzona 1321 product  
2 coats (of different colours) of Belzona 1321 were applied to the blasted steel in line with the Belzona 1321 IFU  
Transport was arranged by Belzona to return the plates to site

## Belzona Facts

The customer is aware that the Belzona will wear, but knows that the current rate of wear will be diminished, offering a longer standing period of production without interruption. They are also happy with the visual indicator and continuing supply of Belzona 1321 for them to carry out repairs to the top coat of the Belzona 1321 themselves.

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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9000 Registered Quality  
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