

# BELZONA ELIMINATES BREACHES IN BLAST FURNACE

ID: 1371

Industry: General Industry  
Application: MPT-Mechanical Power Transmission

Customer Location: Steel Manufacturer, Teesside, UK  
Application Date: October 2009

Substrate: Carbon Steel  
Products: \* Belzona® 1111 (Super Metal) ,

## Problem

Abrasive dust and gases from the blast furnace had bypassed packings and seals around the shaft for the flow control gate at the top of the blast furnace. Damage had rapidly escalated, creating several grooved rings and severely gouged pits up to 15mm deep, allowing gases to escape, creating a potentially toxic area.



## Photograph Descriptions

- \* Blast Furnace Flow Control Gate assembled ,
- \* Damaged shaft ,
- \* Application of Belzona® 1111 and clamp former ,
- \* Final dressing of Belzona® 1111 before reassembly ,

## Application Situation

Shaft for the Flow Control Gate into the blast furnace.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet MPT-2.

## Belzona Facts

The contractor completed the work throughout the night and under a tight schedule. 9Kg of Belzona® 1111 was used with a purpose built clamp to recreate the original shaft profile of 280mm diameter. The preparation and application took only 2.5 hours, followed by a 5 hour cure period using heating pads to accelerate the cure. The blast furnace was returned to service with minimum downtime and to the complete satisfaction of the client.

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  
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