

# BELZONA PROTECTS COAL DRYER FAN

ID: 5275

Industry: *Mining & Quarrying*  
 Application: *FBC-Fans, Blowers and Compressors*

Customer Location: *BC, Canada*  
 Application Date: *June 2008*

Substrate: *Steel plate*  
 Products: *\* Belzona 1311 (Ceramic R-Metal) ,*  
*\* Belzona 1391 (Ceramic HT) ,*

## Problem

*The fan blades were being eroded by the hot coal and water mixture under operating temperatures of 110°C.*



## Photograph Descriptions

- \* View of the wear pattern exhibited by the fan blades. ,
- \* Preparation of the metal surfaces in progress via grit blasting. ,
- \* Completed application. Eroded areas were rebuilt with Belzona 1311 and coated with Belzona 1391. ,
- \* Condition of fan blades after 12 months in service. ,

## Application Situation

Eroded fan blades

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet FBC-1.

## Belzona Facts

Belzona materials allowed the application to be completed with the minimum amount of downtime; only in one shift. Belzona also provided a sacrificial coating that would ensure the blades would not deteriorate to a point where total replacement became necessary. The balance of the unit was maintained by applying an equal amount of Belzona products per blade. An additional benefit from the application was that power required to run the fan was dramatically reduced (Estimated at  $\pm 15\%$ ).

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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