

# BELZONA RESTORES FAN BLADES TO FINE FETTER

ID: 6069

Industry: Chemical & Petrochemical  
Application: FBC-Fans, Blowers and Compressors

Customer Location: Refinery, Scotland  
Application Date: 2013

Substrate: Fibreglass

Products: 

- \* Belzona 1121 (Super XL-Metal) ,
- \* Belzona 1341 (Supermetalgilde) ,
- \* Belzona 5911 (Ceramic Conditioner) ,
- \* Belzona 5111 (Ceramic Cladding) ,
- \* Belzona 9341 (Reinforcement Tape) ,

## Problem

UV radiation and impingement erosion had worn down the leading edges of the fan blades, damaging the fibreglass construction.



## Photograph Descriptions

- \* The damaged fan blades ,
- \* Damaged areas restored with Belzona 1121 ,
- \* Leading edges marked off and coated with Belzona 1341 ,
- \* Completed application ,

## Application Situation

Blades from a Fin Fan cooler

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet FBC-1. The damaged areas were rebuilt and

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

Belzona products are  
manufactured under an ISO  
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reinforced with Belzona 1121 incorporating Belzona 9341. An area of roughly 75mm around the leading edges of each fan blade were coated with Belzona 1341 to provide optimum erosion resistance. Finally the Belzona 5111 system was applied over the blades to provide UV resistance to the underlying fibreglass.

## Belzona Facts

These fan blades in their original state typically last between 5-8 years before being worn down by use. Replacing a full set of blades is expensive and wasteful, and does not provide a long-term solution to the problem. Use of Belzona allowed the fan blades to be restored to original profiles and then to be protected with a durable UV resistant finish to provide long term performance in service.

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