

# COOLING TOWER FAN BLADES REPAIRED WITH BELZONA PRODUCTS

ID: 1445

Industry: *General Industry*  
Application: *FBC-Fans, Blowers and Compressors*

Customer Location: *Fertilizer Producer, Indonesia*  
Application Date: *February 2010*

Substrate: *GRP*  
Products: *\* Belzona® 1311 (Ceramic R Metal) ,*  
*\* Belzona® 1321 (Ceramic S Metal) ,*  
*\* Belzona® 5811 (Immersion Grade) ,*

## Problem

*Erosion on leading edges, cracks and flaking on trailing edges of cooling tower fan blades caused by UV degradation, erosion and impingement. This reduces the overall efficiency and operation of the cooling system.*



## Photograph Descriptions

- \* Damage on leading edges ,
- \* Flaking on trailing edges ,
- \* Belzona application ,
- \* Completed blades after coating with Belzona® 1321 and Belzona® 5811 ,

## Application Situation

GRP fan blades from cooling tower

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet FBC-1. The Leading edges and trailing edges were rebuilt with Belzona® 1311 and subsequently coated with Belzona® 1321. Blade body was coated using Belzona® 5811.

## Belzona Facts

The Belzona refurbishment has avoided the high cost of blade replacement. Each cell contains six blades. The Belzona solution will provide the plant with long term protection of the blades.

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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manufactured under an ISO  
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