

# BELZONA PROTECTS EXHAUST FAN FROM EROSION

ID: 5289

Industry: Marine  
Application: FBC-Fans, Blowers and Compressors

Customer Location: BC, Canada  
Application Date: May 2010

Substrate: Mild Steel  
Products: \* Belzona 1391 (Ceramic HT) ,  
\* Belzona 1811 (Ceramic Carbide) ,

## Problem

*The fan moves hot, moist, particulate laden exhaust air from the dryers. The hot air erodes the replaceable hardened steel blade faces while the swirling mixture erodes the back faces of the fan blades, compromising its structural and strength.*



## Photograph Descriptions

- \* The leading faces of the fan blades are protected with Belzona 1391. ,
- \* The backside of the fan blades are protected with Belzona 1811. ,
- \* Completed application with both front and back of the fan blades protected. ,

## Application Situation

Exhaust fan

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet FBC-1 and FBC-2.

## Belzona Facts

Using Belzona 1811 to fair in and smooth the blade back help to reduce the swirl effect and protect the blade. On the blade faces, Belzona 1391 acts as a sacrificial coating and has proven to almost double the service life of the AR plate. It is planned to reapply Belzona 1391, when necessary, in situ to extend the service life even further.

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  
Management System.

[www.belzona.com](http://www.belzona.com)

  
**BELZONA**<sup>®</sup>  
Repair • Protect • Improve