

# Belzona Protects a Leading Edge of a Wind Turbine Blade

ID: 8769

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

Customer Location: Wind Farm, TX  
Application Date: 2021

Substrate: Glass Reinforced Plastic

Products: \* Belzona 1221 ,  
\* Belzona 2911 ,  
\* Belzona 5721 ,

## Problem

*Leading Edge Erosion (LEE). The effects of raindrops, sand and hail chewed-up the leading edge on the rotating blades. If not repaired, LEE can leave the blades unbalanced, affecting the shaft and gearbox resulting in energy loss.*



## Photograph Descriptions

- \* 1. Gel coat removed. ,
- \* 2. The blade fully prepped. ,
- \* 3. Finished application with Belzona 5721 in white. ,

## Application Situation

Leading edge of a wind turbine blade.

## Application Method

The application was carried out in accordance with the Belzona System Leaflet FBC-16 and Belzona 5721 "Instructions For Use". First the surface was rebuilt using Belzona 1221. 2911 conditioner was applied to the coating area to have optimum adhesion. Then the surface was overcoated with one coat of Belzona 5721 - LEP coating.

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.

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## Belzona Facts

Belzona 5721 is a high performance, UV stable and solvent-free coating. Several tests had been conducted using alternative solutions, including a tape and different epoxy coatings. The alternative systems failed within 18 months while the Belzona system was still going strong and looking brand new. Additionally, due to questionable weather, the ability to stage an application left a very narrow window. The contractor needed a product that was easy to mix and apply along with a quick cure cycle while suspended by wire rope in a staging basket. The customer feels the repair with Belzona 5721 will last 5-8 years. Substantial maintenance costs have been saved!

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