

Belzona 5721 Repairs Cooling Tower Fan Blades Leading Edge

ID: 9055

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

Customer Location: Wilsonville, AL
Application Date: April 2023

Substrate: Other
Products: Belzona 2911 (Elastomer QD Conditioner), Belzona 5721

Problem

The customer had some questionable fan blades that were in need of attention. The leading edge has some light pitting and deteriorated from erosion and wear. They were looking to protect the current ones in service rather than purchasing new ones.



Before - In Service Pitted Blades
Before - Close up of Current Condition pitting/wear on the leading edge

Completed View 1 4" Strip of Belzona 5721 Applied to Leading Edge

Completed View 2 - 4" Strip of Belzona 5721 Applied to Leading Edge

Application Situation

Cooling Tower Fan Blades are made of fiberglass. This specific tower included a total of 11 - 11 foot fan blades exposed directly in the elements + sun. They have been in service for 5+ years and can be very pricey to replace. This customer wanted to look at protecting the leading edge as they are primarily the areas we see wear and tear.

Application Method

After pressure washing, we addressed any small pits along the leading edge and sanded down the area to coat a 4" strip of Belzona 5721 (designed for wind turbine blades) that ran the edge of the 11' blade.

Coated leading edge 2" on both sides of blades.

- Use sander for profile.
- Apply Belzona 2911 QD conditioner let cure.
- Apply 1st coat Belzona 5721 UV stable coating white let cure.
- Apply 2nd coat Belzona 5721 UV stable coating grey let cure.
- Blades to be wrapped in bubble wrap to protect leading edge for transport to facility.

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

For a product cost of \$2700, they were able to have exponential savings on new blades and have these ready to return to service for years to come.

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