

Belzona used for the protection of a wind turbine blade

ID: 8441

Industry: Power
Application: CEP-Centrifugal Pumps
Substrate: FRP
Products: * Belzona 5721 ,

Customer Location: Galicia, Spain
Application Date: March 2020

Problem

Erosion of the leading edge of the blades caused by impact from rain droplets. Routine inspection and periodic repair is required to keep the turbine running efficiently.



Photograph Descriptions

- * 1. Surface preparation ,
- * 2. Application of Belzona 5721 ,
- * 3. First layer complete ,
- * 4. Final layer complete ,

Application Situation

The customer is looking for a protective coating for their Wind Turbine Blades, to be applied on the leading edge, that has excellent performance, as well and ease of application both in the workshop and in the field throughout the year.

Application Method

The leading edge of the blade has been prepared using hand held sander power tool, removing the existing gel-coat and to provide a clean and rough surface. After cleaning the prepared area, the Belzona 5721 system has been applied as a one-coat system at an average of 500 microns.

Belzona Facts

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[®]
Repair • Protect • Improve

The Belzona system offers erosion resistance that is equal or better to alternative solutions, while improving the ease of application, saving time and labor costs. The Belzona product can be applied in a wide range of environmental conditions when compared with alternative systems, meaning repair work can take place throughout a greater period of the year, including much of the winter. The wind turbine blade and the Belzona system applied has been put into service at an onshore windfarm, and will be inspected regularly by the maintenance team to monitor performance over time.

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