

Wind turbine blades LEP protected with Belzona 5721

ID: 9341

Industry: Power

Customer Location: Tiverton Ontario

Application: FBC-Fans, Blowers and Compressors

Application Date: June 2020

Substrate: Composite

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

Problem

A customer in Southwestern Ontario was looking to repair and refurbish some of their blades that were affected from severe erosion. The blades were not initially protected and were only put in service with the factory gel coat.



Repairs and Sanding complete

Ready for degreaser and cleaner

Belzona 5721 application

Inspection after 7 months of back in service

Application Situation

They decided to test Belzona 5721 coating as they were impressed with the features and performance of this product. Belzona 5721 has been tested against internationally recognized standards ASTM G73, ASTM G76 and ASTM G32 and exhibits excellent erosion and cavitation resistance.

Application Method

Before the application of Belzona 5721, the surface of the LEP was cleaned and sanded. Defects and areas that needed rebuild were repaired. Once a clean and even surface was achieved, Belzona 2911 (Elastomer QD Conditioner) was applied to condition the surface and allowed to become touch dry. Then, one coat of Belzona 5721 was applied to the thickness of 20 mils. The product was allowed to cure before putting the turbine back in service.

Belzona Facts

The product was inspected via drone after 7 months in service, and the product appeared to be intact with no signs of wear, chalking or peeling.

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ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

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