

Belzona 5711 / 5721 makes successful debut in Thailand

ID: 8767

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

Customer Location: Pak Chong, Thailand
Application Date: November 25th, 2021

Substrate: Fibreglass/Glass Reinforced Plastic (GRP)
Products: * Belzona 5711 ,
* Belzona 5721 ,

Problem

Several WTG (Wind Turbine Generator) blades had suffered damage from bird strikes, lightning strikes, and erosion from the rain. The damaged blades could cause rotor imbalance and more severe problems, so the affected WTG units were shut down.



Photograph Descriptions

- * Photo 1 - Cleaning the Blade ,
- * Photo 2 - Surface Preparation ,
- * Photo 3 - Applying Belzona 5711 ,
- * Photo 4 - Applying Belzona 5721 ,

Application Situation

Damaged wind turbine blades at a wind farm 110 Miles Northeast of Bangkok. The wind farm is owned and operated by one of Thailand's leading energy providers. The client contacted the Belzona distributor in Thailand for a repair and protection solution for the damaged blades.

Application Method

Before travelling to the project site, the application team completed a one-day course on how to repair wind turbine blades using Belzona 5711/5721 at the Belzona Training Facility in Thailand. Onsite, a three-person team, two applicators using rope access, and one spotter on the ground carried out the application. Each damaged blade was cleaned using water and a degreaser, and the affected area was identified and marked. The damaged surfaces were sanded down with 80 grit sandpaper, and Belzona 5711 was applied with an applicator and rubber strap to repair the physical damage on the blades. After the Belzona 5711 product had cured, the area was sanded once again to provide a smooth finish; masking tape was then used to mark out the areas for coating. Belzona 5721 was then applied within the Belzona 5711 overcoating window to the affected areas with a brush. After completing the applications, the masking tape was removed, and the WTG unit was ready to return to service.

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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Repair • Protect • Improve

The application was carried out in accordance with Belzona System Leaflet FBC -16.

Belzona Facts

Belzona 5711 was the optimum choice due to its ease of use and excellent overcoating window. Belzona 5721 was chosen due to its excellent track record on these types of repairs. Using both these products ensures a rapid return to service resulting in minimum downtime for the WTG unit.

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