

BELZONA 5721 LEP SOLUTION FOR COLD WEATHER

ID: 8150



PROBLEM

Over time, the leading edge of wind turbine blades become eroded and lose efficiency and power production for the turbine generator. Because of the time of year, the weather was very cold, and a blade repair solution was needed to properly complete the repairs.

APPLICATION SITUATION

Leading Edge Protection solutions need higher temperatures to properly be applied and cured. As temperatures dropped towards 40°F (4.4°C) there are not many solutions out there which will work.

APPLICATION METHOD

The application was carried out in accordance with a modified version of Belzona Know-How System Leaflet FBC-1. The blades were coated on the turbine at the operation site. The pitting and loss of surface on the leading edge was resurfaced with a filler product and rebuilt to dimensions. The surface area was sanded down with a mechanical sander and cleaned with a rag and non-residual solvent cleaner. One coat of Belzona 5721 at 20 mils (508µm) was applied.

BELZONA FACTS

The work was completed by the contractor thanks to Belzona 5721 as they could not normally apply LEP coatings on the blades at this time of the year. It saved the customer time as the coating cures in 6 hours, therefore downtime was substantially reduced.

INDUSTRY

Power

LOCATION

Wind Farm, Minnesota

APPLICATION DATE

September 2019

PRODUCTS

Belzona 5721

SUBSTRATE

Fiberglass/Gelcoat

PHOTOS

1. Damaged leading edge of wind blade
2. Belzona 5721 ready to mix
3. Finished Belzona 5721 application on leading edge
4. View of the Wind Farm

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