

Belzona Seals Wind Turbine Tower Base Against Water Ingress

ID: 7500

Industry: Power
Application: WPA-Wall Problem Areas
Substrate: Concrete and Metal
Products: * 3111 (Flexible Membrane) ,
* 3911 (PSC Surface Conditioner) ,

Customer Location: Wind Farm, West Texas, USA
Application Date: Summer 2016

Problem

Rain water and moisture seeps into the ground and into the wind turbine structure through the base around the tower structure. This over time affects the concrete base and propagates cracks and corrosion at the base of the tower. In this case the current coating failed due to UV degradation leading to delamination from the concrete surface.



Photograph Descriptions

- * 1. The old coating that failed, yellowing and peeling from the concrete surface. ,
- * 2. The application area being outlined. ,
- * 3. Application of Belzona 3111 underway. ,
- * 4. Application completed and tower base sealed with Belzona 3111. ,

Application Situation

Wind Power Tower Base

Application Method

The application was carried out in accordance with a modified version of Belzona System Leaflet WPA-1.

Belzona Facts

Belzona 3111 was a great and easy way to seal the base of the structure and the concrete. The application was simple to do and

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ISO 9001:2015
Q 09335
ISO 14001:2015
EMS 509612

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gave the Customer that extra flexibility in that area. Short of sealing with some type of concrete filler they had few options for this problem. Sealing the tank base with Belzona 3111 proved to be a cost-effective solution with minimal downtime and interruption to the operation of the turbine.

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