

Belzona Seals Oil Leak in Concrete Reservoir In Wind Turbine Tower

ID: 7503

Industry: Power
Application: TCC-Tanks and Chemical Containment Areas

Customer Location: Tacuarembó, Uruguay
Application Date: November 2014

Substrate: Concrete

Products: * Belzona 1321 (Ceramic S-Metal) ,
* Belzona 4141 (Magma-Build) ,
* Belzona 4911 (Magma TX Conditioner) ,

Problem

Oil Reservoir located circularly around the wind turbine tower is leaking at the bottom through the concrete and treads into the sealing under it. The oil is being lost and some concrete loss/damage has been sustained over time because of the leaking.



Photograph Descriptions

- * 1. Oil reservoir built around the wind tower. ,
- * 2. Oil leaking under the reservoir through to the concrete. ,
- * 3. Surface preparation for the repairing of the damaged concrete with Belzona 4141 and Belzona 4911. ,
- * 4. Oil reservoir sealed with Belzona 1321. ,

Application Situation

Oil Reservoir Within Wind Turbine Tower

Application Method

The application was carried out in accordance with a modified version of Belzona System Leaflet TCC-1. The oil was emptied out, the area in the reservoir and under it in the lower floor sealing was thoroughly cleaned. The damaged concrete area was rebuilt with Belzona 4141 using Belzona 4911 for proper adhesion. Belzona 1321 was then poured into the reservoir up to 4 inches from the bottom to seal off any leaks from the concrete or treads to the sealing below.

Belzona Facts

The Customer was pleased with Belzona products being able to fix the whole problem with minimal downtime. An alternative option available to the Customer was to seal the leaking area with new concrete and to rebuild the damaged with new concrete also. However, the Customer did not believe that was a feasible option.

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FS 695214
ISO 14001:2015
EMS 695213

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