

Belzona Repairs and Protects Screw conveyor

ID: 6459

Industry: Water / Wastewater

Customer Location: Wastewater Treatment Plant, Bialystok
Poland

Application: SHM-Solids Handling Machinery

Application Date: July 2014

Substrate: Steel

Products: * Belzona 1511 (Super HT-Metal) ,
* Belzona 9811 ,
* Belzona 1813 ,

Problem

The new screw conveyor suffered surprisingly fast wear by erosion and bi-metallic corrosion. The shaft of the screw conveyor had been topped with a stainless steel sheet to protect it from corrosion. However, after less than a year of operation the steel was worn from the surface of the shaft. In addition to the aggression of chemical sludge, it reaches a very high temperature of approx. 120 degrees Celsius.



Photograph Descriptions

- * 1.Screw conveyor before application ,
- * 2.Visible effects of galvanic corrosion ,
- * 3.Application of Belzona 9811 and Belzona 1511 ,
- * 4.View after grouting with Belzona 1813 ,

Application Situation

Sludge screw conveyor.

Application Method

The application was carried out in accordance with Belzona System leaflet SHM-14. The surface of the shaft was blasted and Belzona 9811 tiles were bonded to the surface of the shaft using Belzona 1511. The tiles were grouted using Belzona 1813.

Belzona Facts

The Belzona solution eliminated the problem of galvanic corrosion and increased the durability of the screw conveyor. With Belzona

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FS 695214
ISO 14001:2015
EMS 695213

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