

# BELZONA REPAIRS AND PROTECTS SCREW CONVEYOR

ID: 6459



## 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.

## 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 the life time is three times longer than the original solution.

## INDUSTRY

Water / Wastewater

## LOCATION

Wastewater Treatment Plant, Bialystok  
Poland

## APPLICATION DATE

July 2014

## PRODUCTS

Belzona 1511 (Super HT-Metal)  
Belzona 9811  
Belzona 1813

## SUBSTRATE

Steel

## PHOTOS

- 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

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