

ABRASION PROTECTION FOR SLUDGE SCREW CONVEYOR

ID: 8844



PROBLEM

The bare steel had a short life expectancy in service. The sludge being transported by this screw was not only highly abrasive but also corrosive - these corrosive conditions would shorten the life of many abrasion resistant metal overlays.

APPLICATION SITUATION

A screw conveyor transporting waste sludge was suffering from abrasion & corrosion in service. A new screw conveyor was fabricated - heavy abrasion & corrosion resistance were required to extend its service life.

APPLICATION METHOD

The screw conveyor was first grit blasted to SA 2.5 cleanliness & 75 microns profile. The Belzona 1812 (Ceramic Carbide FP) was then built up on the drive flights & the shaft body.

This was applied in accordance with Belzona system leaflet SHM-14.

BELZONA FACTS

By lining these screw conveyors with Belzona 1812 the life of the screw conveyor is greatly extended.

INDUSTRY

Water / Wastewater

LOCATION

Glasgow, Scotland

APPLICATION DATE

June 2022

PRODUCTS

Belzona 1812 (Ceramic Carbide FP)

SUBSTRATE

Carbon Steel

PHOTOS

- 1 - Screw conveyor before
- 2 - Screw during application
- 3 - Belzona 1812 close up
- 4 - Belzona 1812 close up

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

www.belzona.com

