

BELZONA RESTORES WORN ARCHIMEDES SCREW

ID: 4643

Industry: Water / Wastewater
Application: SHM-Solids Handling Machinery

Customer Location: Ohio, USA
Application Date: April 2013

Substrate: Steel
Products: * Belzona 1811 (Ceramic Carbide),

Problem

Erosion and corrosion caused the edges of the 58 inch long archimedes screw flights to be worn down, thus losing efficiency at Wastewater Treatment Plant.



Photograph Descriptions

- * Overview of 58 inch archimedes screw ,
- * Worn flights on flatbed hauler ,
- * Archimedes screw blasted and prepared for application ,
- * Belzona 1811 applied to the screw flights ,

Application Situation

Worn archimedes screw flights

Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet SHM-14. The entire 58 inch long screw was blasted before applying Belzona 1811 to rebuild and reinforce the edges that were worn down. There is a large sections of the flights were missing, expanded metal was welded in place prior to applying the Belzona 1811.

Belzona Facts

The customer stated that the Belzona repair material was much less costly than replacing the archimedes screw and importantly was completed in far less time than conventional repairs would have taken. A similar application was completed in September of 2009 and was recently inspected. The screw was in the same condition as the day the application was completed more than 6 years ago.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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