

Roll Crusher abrasive lining

ID: 9625

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

Customer Location: *Scotland*
 Application Date: *June 2015*

Substrate: *Carbon steel*
 Products: *Belzona 1812 (Ceramic Carbide FP)*

Problem

Roll crushers in use in a sludge processing plant were experiencing excessive wear in service.



Crusher before surface preparation

Surface prepared & wet out with Belzona 1812

5mm lining of Belzona 1812 applied

Roll crushers machined & put into service. Image taken 18 months, minor damage noted.

Application Situation

The sludge used within the site was highly abrasive & corrosive. An abrasion resistant system was required to protect these crushers & extend their life.

Application Method

A profile was machined into the surface of the crushers. Scrubbing brushes were used to wet out the surface. 5mm of Belzona 1812 was then built up. The surface was then machined down flat on a large lathe with PCD cutting tools.

Belzona Facts

These crushers go into service for around 18 months before being taken out. Minor repairs from contact with hard objects is noted & can typically be spot repaired.

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

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