

Belzona system repairs areas to wet pulp screw conveyor

ID: 9957

Industry: Food & Drink

Application: SHM-Solids Handling Machinery

Customer Location: Kings Lynn

Application Date: August 2025

Substrate: Stainless-steel

Products: Belzona 1311 (Ceramic R-Metal), Belzona 1391T

Problem

A Wet Pulp Screw Conveyor with localised areas of erosion and scoring. These defects were causing process issues and preventing the conveyor from operating at its optimum capacity.



wet pulp screw conveyor with localised areas of erosion and scoring

The affected areas are prepared to minimum surface profile using hand tools

Surface is rebuilt using Belzona 1311 (Ceramic R-Metal) and reinforcement sheet

Two coats of Belzona 1391T adds protection to the screw conveyor

Application Situation

The three areas of concern are located on the shaft only, affecting three separate sections between the screw flights. The customer requested

that the screw remains in position and worked on in situ. To carry this out, we required the equipment to be safely isolated but free to rotate in order to aid surface preparation and application of the Belzona system.

Application Method

To limit disruption, the application areas were prepared using power tools only, in accordance with SSPC-SP11.

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FS 695214
ISO 14001:2015
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Once prepared, the areas will be thoroughly cleaned. Any sections showing loss of profile were rebuilt back to standard using Belzona. Following this, the full circumferential repair areas were reinforced using Belzona 1311 and Belzona 9341 then be left to stabilise overnight.

The following morning, the repaired areas were inspected and then received two coats of Belzona 1391T.

Belzona Facts

Belzona's solution provided additional protection and improved the asset's life expectancy. The repair was carried out in situ and within a timely manner, which ensured minimal downtime.

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