

# Belzona Repairs Screw Feed Trough

ID: 8315

Industry: *General Industry*  
Application: *SHM-Solids Handling Machinery*

Customer Location: *Portugal*  
Application Date: *2020*

Substrate: *Steel*  
Products: *\* Belzona 1811 (Ceramic Carbide) ,*  
*\* Belzona 1814 ,*  
*\* Belzona 9811 (Alumina tiles) ,*

## Problem

*This screw conveyor was used for the movement and separation of media such as glass, plastics and general waste for a landfill site. The harsh media going through the screw conveyor was causing severe abrasion on the screw feed trough leading to regular cracks and repairs through welding, this meant massive regular downtime for the client and they wanted to find a long term solution.*



## Photograph Descriptions

- \* Before application - Previous 1.5m trial section can be seen at the bottom of the feed ,
- \* Close up of the 1.5m trial patch after 6 months in service ,
- \* Start of preparation and application of the Belzona 1814 section ,
- \* Final applicaiton ,

## Application Situation

Restoration of a screw feed trough used for waste management.

## Application Method

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

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

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This application was carried out in accordance with a modified version of system leaflet SMH-07. The surface of the screw feed trough was prepared and cleaned before the top section of the trough was applied with Belzona 1814, the majority of the trough was then applied with Belzona 1811. The Belzona 9811 alumina tiles were also incorporated with the Belzona 1811 and Belzona 1814 to create a high abrasion resistant system.

## Belzona Facts

It was agreed a 1.5m trial application would be carried out before the whole screw conveyor was to be repaired as this was the client's first time using Belzona. 6 months after the original trial the results showed the Belzona system to still be in excellent service condition. The client was extremely happy with the results and agreed to proceed with the whole screw conveyor. To follow the strict time scale the whole application was carried out in 2 days and a total of 180Kg of Belzona 1811 and 1814 was used.

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