

# BELZONA REPAIRS AN AUGER SCREW

ID: 1893

Industry: Chemical & Petrochemical  
Application: SHM-Solids Handling Machinery

Customer Location: Chemical fertilizer producer, Tunisia  
Application Date: February 2005

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

## Problem

The weld area between the flights and auger shaft had been severely eroded due to the abrasive and corrosive nature of the phosphate. This erosion damage was around 20cm wide and spread over the length of the equipment.



## Photograph Descriptions

- \* Grit-blasted auger screw ,
- \* Application of Belzona® 1811 ,
- \* Finished application ,

## Application Situation

Large screw auger handling Phosphate fertilizer.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet SHM-14. The equipment was grit-blasted, degreased, then the eroded areas covered with 40kg of Belzona® 1811.

## Belzona Facts

The client spent around €10,000 for the application. Compared to the €50,000 that a new auger screw would have cost. This was a considerable saving – even more so considering that the client would normally have had to buy a new auger screw every year, which they avoided thanks to the Belzona repair. As a result so far the client has been able to save around €300,000 over the last 6 years.

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.

[www.belzona.com](http://www.belzona.com)

  
**BELZONA**  
Repair • Protect • Improve