

# Protection Of Biomass Incinerator Chutes With Belzona

ID: 8448

Industry: Mining & Quarrying  
Application: SHM-Solids Handling Machinery

Customer Location: Warsaw, Poland  
Application Date: June 2020

Substrate: Stainless steel  
Products: \* Belzona 1111 (Super Metal) ,  
\* Belzona 9811 (Alumina Tiles) ,  
\* Belzona 1811 (Ceramic Carbide) ,  
\* Belzona 1813 ,  
\* Belzona 1321 (Ceramic S-Metal) ,

## Problem

Excessive wear of stainless steel chutes when operating at elevated temperatures. The client was looking for a long-term solution to protect the substrate.



## Photograph Descriptions

- \* 1. Chutes in the Biomass Plant ,
- \* 2. Application of Belzona 9811 ,
- \* 3. Application of Belzona 1813 grouting Belzona 9811 ,
- \* 4. Complete Application using Belzona 1811 ,

## Application Situation

Application inside biomass incinerator chutes (dimension 500x500x2700mm)

## Application Method

Application was carried out in accordance with Belzona system Leaflet SHM-7. After blasting with aluminium oxide grit Belzona 9811 alumina tiles were bonded to prepared substrate using Belzona 1111 and then grouted using Belzona 1813

## Belzona Facts

Premature chutes failure resulted in frequent component replacements and downtime. To prevent such failures in the future and extend the service life of the chutes, the client was looking for a way to protect this sections. This system proved to be the ideal

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FS 695214  
ISO 14001:2015  
EMS 695213

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solution and provided the required abrasion resistance, and the customer was very pleased with the results.

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