

# Belzona 1813 Protects a Fan Wheel at a Gravel Plant

ID: 8410

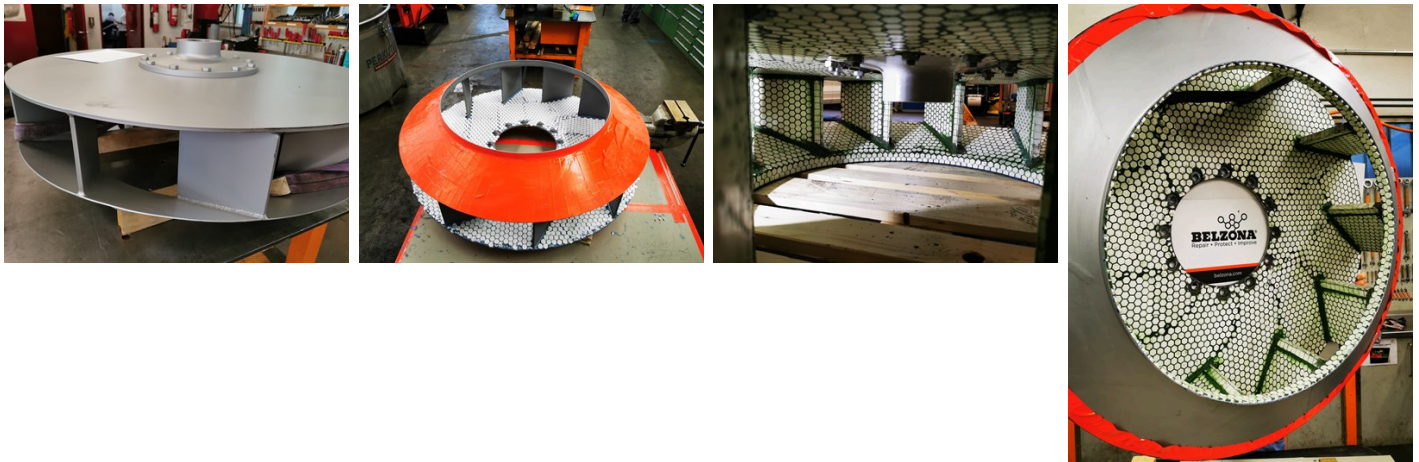
Industry: Mining & Quarrying  
Application: SHM-Solids Handling Machinery

Customer Location: Switzerland  
Application Date: November, 2020

Substrate: Steel  
Products: \* Belzona 1391T Belzona 9811 Belzona 1813 ,

## Problem

The customer experienced strong abrasion issues on the inside and outside of the blades. The impeller rotates at approx. 2500 revolutions. In addition, temperatures of 150 to max 200 ° C prevail.



## Photograph Descriptions

\* Image 1: Fan Impeller Grit Blasted Image 2: Belzona 9811 Applied onto Belzona 1391T Image 3: Belzona 1813 applied to the Belzona 9811 Image 4: Complete Application ,

## Application Situation

The customer at the gravel plant has been struggling with abrasion issues due to fine dust from earth, stone and mud on the fan wheel.

## Application Method

The fan impeller was grit blasted in accordance with the standard Belzona surface preparation. They then applied Belzona 1391T and attached the Belzona 9811 Alumina tiles to offer extra abrasion resistance and grouted with Belzona 1813 in accordance with a modified version of Belzona system leaflet SHM-7.

## Belzona Facts

The client tried to weld with various material (hard metal) unfortunately it was unsuccessful. They then turned to Belzona to offer a

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solution for abrasive environments.

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