

# Belzona controls severe abrasion in a cone crusher

ID: 8366

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

Customer Location: Quarry in Croatia  
 Application Date: August 2020

Substrate: Steel  
 Products: \* Belzona 9811 (Alumina Tiles) ,  
 \* Belzona 1121 (Super-XL Metal) ,  
 \* Belzona 1812 (Ceramic Carbide FP) ,

## Problem

Abrasion is most severe on two positions inside the crusher housing - each size of 20x40 cm. In September 2019, we applied two meshes of Belzona 9811 alumina tiles, bonded with Belzona 1121 and grouted with Belzona 1812. After 11 months, approximately half of the surface was still OK, and the other half (more exposed), needed upgrade.



## Photograph Descriptions

- \* 1. Cone crusher - view from above ,
- \* 2. Cone crusher - view from the inside, situation after 11 months of operation ,
- \* 3. Belzona 9811 bonded with Belzona 1121 ,
- \* 4. Application finished after grouting with Belzona 1812 ,

## Application Situation

Cone crusher in a quarry suffers from severe abrasion due to transport of sharp-edged rocks, which scrape and collide against the mantle.

## Application Method

The application was carried out according to SHM-7. Surface was cleaned and then prepared with a grinder.

## Belzona Facts

Customer initially needed a quick repair over the weekend, because the plant operates 24/7 through the working days. Last year, we used the same method as now. After 11 months, some 50% of surface needed upgrade and the rest was still OK. The customer needed to invest only a fraction of last year's price to get the same result as last year. We are looking forward to ongoing business here.

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