

BELZONA 4111 REPAIRS SHELL AND SECURES WEDGE LINERS IN A BALL MILL

CUSTOMER

Metal producer, Mykolaiv, Ukraine

APPLICATION DATE

2016

APPLICATION SITUATION

This is one of the biggest non-ferrous refineries in Europe. It has been in operation since 1980 with seven ball mills continuously working ever since. The ball mills are used to grind and blend materials, reducing their size by impact as the balls drop from near the top of the shell. Wedge liners protect the shell from damage.

PROBLEM

The wedge liners did not fit together perfectly. Overtime, they caused damage to and distorted the ball mill shell underneath. The refinery wanted to repair the damage and secure the wedge liners. The environment included bauxite and an alkaline solution at 80°C (176°F).

PRODUCTS

Belzona 4111 (Magma-Quartz)

SUBSTRATE

Shell and Liner

APPLICATION METHOD

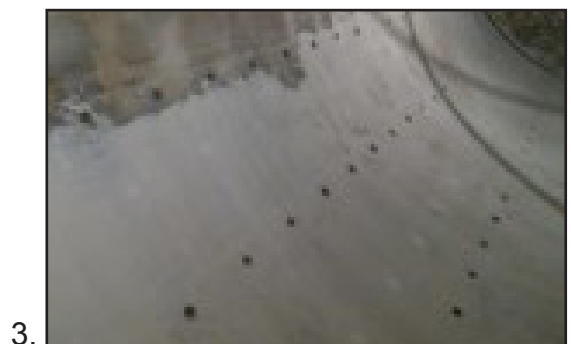
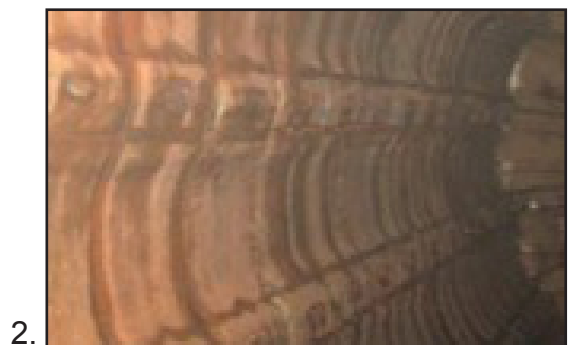
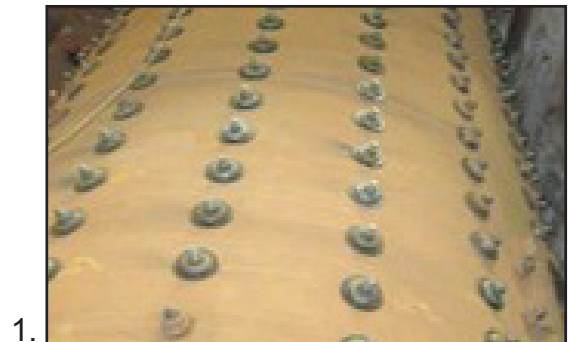
The application was carried out in accordance with Belzona Know-How System Leaflet TCC-9.

BELZONA FACTS

Belzona 4111 was applied to resurface the shell and fill the gaps in the wedge liner. First application was completed in 2016 onto two ball mills, followed by two more in 2017 and another two ball mills in 2018.

PICTURES

1. Ball mill, outer view
2. Ball mill, inner view
3. Shell repaired
4. Wedge liner secured



For more examples of *Belzona Know-How In Action*, please visit <http://khia.belzona.com>



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

UK • USA • Canada • Thailand
www.belzona.com

