

One Day Turnaround for Belzona Floor Repair at Iron Ore Mine

ID: 9382

Industry: Mining & Quarrying

Customer Location: Iron ore mine in South Africa

Application: FPA-Floor Problem Areas

Application Date: January 2019

Substrate: Concrete

Products: Belzona 4131 (Magma-Screed), Belzona 4911 (Magma TX Conditioner)

Problem

The customer was experiencing severe erosion on the floor area of a launder. This area was used for the transfer of water and slurry to the thickener dams where it is disposed of. The customer was unable to use the alternative which, in this case, was concrete as this meant the launders would be out of service for 28 days.



Smaller are prepared ready for Belzona application



Belzona 4131 applied to damaged area.



Application in progress



Completed repair with Belzona 4131 in service for 5 years

Application Situation

The application area itself was 45 metres long and 1 metre wide, with a total thickness of 6-12 mm. The area in the middle was worn more than on the sides.

Application Method

Surface preparation was carried out by hand as the substrate was concrete with blue stone in it. Belzona 4911 (Magma TX Conditioner) was first applied to the area, and then Belzona 4131 (Magma-Screed) one metre at a time. Distributor's own application team carried it the application on site.

Belzona Facts

The Belzona 4000 series was offered as the solution as these products had the ability to withstand the harsh erosion and abrasion caused by the volume of water mixed with iron ore particles. In addition, the Belzona 4000 series was simple to apply in the conditions at the mine with the ability to carry out the applications in small sections during the one-day shutdown period.

These initial repairs have been in service for 4-6 years and they show no signs of wear.

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ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

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