

Tank base sealing on Hot and Cold sump Vessels

ID: 10278

Industry: Mining & Quarrying

Customer Location: South Africa

Application: GSS-Gaskets, Seals and Shims

Application Date: May 2026

Substrate: Cast Iron

Products: Belzona 3111 (Flexible Membrane), Belzona 4111 (Magma-Quartz)

Problem

Worn and corroded bases on two storage tank vessels (Hot and Cold sumps) demanded attention to prevent structural failure or leaks. The Distributor was contacted by the Smelter Mine to inspect the vessels and provide a suitable and cost effective solution. The application approach using this two product system provides exceptional preventative and structural benefits.



On inspection



Rebuilding the concrete with Belzona 4111 Magma-Quartz



After applying Belzona 3111 Flexible Membrane



After applying Belzona 3111 Flexible Membrane to vessel base

Application Situation

Belzona 4111 alongside 3111 is a highly effective, cost saving method for tank base sealing and repairs. The preparation, cleaning and application was completed within 5 days, working within the Belzona 4111 and 3111 IFU specifications. We have assisted the plant with similar Belzona application work before, and they were happy to proceed with the Belzona solution.

Application Method

Belzona 4111 (Magma-Quartz) was used to rebuild the concrete structure. With Belzona 3111 (Flexible Membrane) breathable, microporous system applied to seal between the steel tank and concrete.

Belzona Facts

Using the two product system provides exceptional preventative and structural benefits. Saving the customer time and money.

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

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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

www.belzona.com

**BELZONA**
Repair • Protect • Improve