

Abrasion Resistant Materials for Long Term Protection

Abrasion is one of the major environmental conditions in mining that impacts the performance of equipment and structures. Equipment needs to move hard and abrasive material, from location to location, in processes, such as extraction, transportation, crushing and milling of metallic and non-metallic minerals.

Belzona provide solutions for equipment including:

- Slurry pump linings
- Lining hydro cyclones
- Repairing pipes and ducts



Combating Wear: Reducing Downtime and Maintenance Costs

Belzona's abrasion-resistant materials offer long-term protection, extending the equipment lifespan and minimising operational disruptions. Our solutions are designed to withstand extreme conditions, ensuring reliable performance in harsh mining environments.

Belzona Solutions can Provide

- Outstanding wear protection
- Superior adhesion
- Broad service temperature range
- Heat, impact, and corrosion resistance
- Extended equipment life
- Fast turnaround



Screw conveyor from the cement industry protected with Belzona.

Company Description

Belzona manufactures **repair materials and protective coatings** for restoring and maintaining industrial machinery, equipment, buildings, and structures.

Abrasion Resistant Systems for Bonding:

- Belzona 1100 – Rebuilding metals
- Belzona 1300 – Erosion/corrosion resistant coatings
- Belzona 2000 – Repair and protection for flexible components

For Grouting:

- Belzona 1100 – Rebuilding metals
- Belzona 1300 – Erosion/corrosion resistant coatings
- Belzona 2000 – Repair and protection for flexible components

For Lining:

- Belzona 9811 – Alumina tiles

Belzona Know-How *in Action*

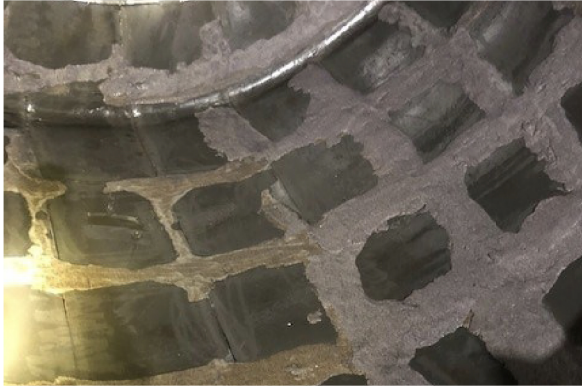
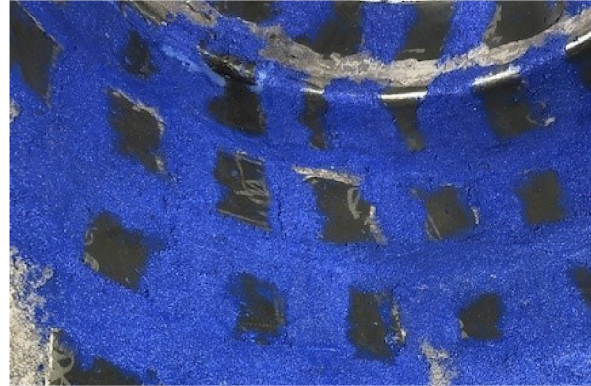
Turbo Separator Repair With Belzona 1818

Elite KHIA

KHIA ID: 8480

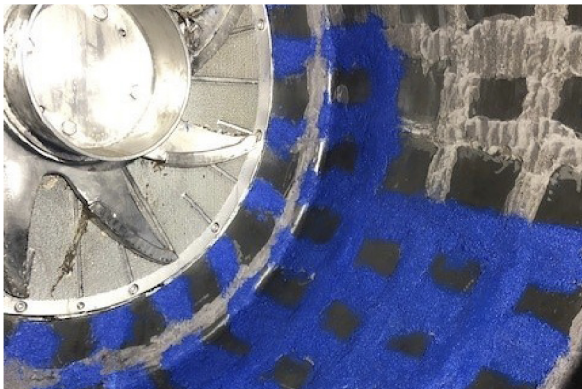
Problem

This turbo separator is designed for coarse screening, effectively removing both light and heavy impurities from wastepaper. The unit was lined with thick basalt tiles, with a durable grouting compound applied over the joints for added protection. However, over time, the grouting compound wore away, leaving the joints exposed to extreme abrasion in this highly demanding environment.

*Worn grouting system**Application in progress*

Solution

After removing the pulp, the turbo separator was dried using rags. Surface preparation was completed quickly with a diamond blade on an angle grinder, ensuring the ideal surface profile for Belzona 1818. The product was easily mixed and applied, even in difficult overhead areas, providing a seamless repair. With its ability to adhere to vertical and overhead surfaces, minimal surface preparation requirements, and fast curing properties, Belzona 1818 allowed for a quicker return to service, reducing both downtime and costs.

*Application in progress**Application complete*

Highly Durable System for Protection Against Extreme Abrasion

For cases of severe abrasion, Belzona 9811 alumina tiles can be incorporated to create an ultra-durable composite lining. These high-performance tiles, combined with Belzona's abrasion-resistant polymers, provide exceptional resistance to extreme wear, in the most demanding environments.

