

Dyno Mill Wear Ring Repair

ID: 9954

Industry: Chemical & Petrochemical
Application: FBC-Fans, Blowers and Compressors

Customer Location: St Gabriel
Application Date: August 2025

Substrate: Stainless-steel

Products: Belzona 1311 (Ceramic R-Metal), Belzona 1812 (Ceramic Carbide FP), Belzona 9811

Problem

The internal diameter of a 40" Dyno Mill wear ring exhibited significant wear and erosion in multiple sections. The high abrasion environment within the mill caused degradation, compromising performance and longevity. A long-term, abrasion-resistant solution was required to restore integrity and extend service life.



Before Application



Applying Belzona 9811 alumina tiles



Belzona 1812 Grout



Finished application

Application Situation

Application only took 2 days to complete saving time and money.

Total Cost: \$6,383.00 (Materials & Labor)

Estimated Savings: \$20,000 per maintenance cycle avoided

Application Method

AAS proposed a full Belzona rebuild and protective liner installation:

Surface preparation was completed via abrasive blasting.

Damaged/worn areas were repaired and rebuilt using Belzona 1311 (Ceramic R-Metal) to restore original geometry.

Once cured, the entire wear ring ID was overlaid with Belzona 9811/1812 alumina ceramic hex tile system for maximum abrasion protection.

Final inspection and demobilization followed after cure and QA.

Belzona Facts

Customer is saving approximately \$20,000 every 2 years by avoiding traditional chrome lining.

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

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