

BELZONA SOLUTIONS FOR REBUILDING AND COATING OF WAVE GENERATION TYRE RIMS

ID: 10213



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PROBLEM

The track, manifold, and wave-generation system tyre rims have experienced corrosion, which may lead to future air leakage even within a short period of operation, resulting in a significant reduction in equipment efficiency. Furthermore, wear and deterioration around the rubber seals have compromised proper sealing, adversely affecting overall system performance and operational reliability.

APPLICATION SITUATION

By carrying out proper surface preparation through grit blasting, followed by the application of Belzona 1121 (Super XL-Metal) combined with Belzona 9341 reinforcement sheet for pitting reconstruction, and final coating with Belzona 5811 (Immersion Grade), the need for component replacement was successfully avoided. This repair solution significantly reduced the customer's repair and maintenance costs while restoring integrity and improving overall operational efficiency.

APPLICATION METHOD

The application was executed in accordance with Belzona Know-How System Leaflets CEP-1, CEP-3, and CEP-4, ensuring full compliance with industry best practices for corrosion protection and extended equipment service life.

1. The procedure commenced with grit blasting to achieve the required surface profile, followed by surface cleaning using Belzona 9111 (Cleaner Degreaser).
2. The pitted areas were subsequently rebuilt with Belzona 1121 (Super XL-Metal) in strict accordance with the Belzona Instructions for Use (IFU).
3. Finally, a two-coat system of Belzona 5811 (Immersion Grade) was applied as per IFU guidelines, providing long-term corrosion resistance and durable protection.

BELZONA FACTS

The customer gained from a reliable, high-performance solution that significantly reduced downtime while extending the service life of their equipment. The proven durability and dependability of the Belzona system also helped lower long-term maintenance expenses, providing a cost-effective and sustainable solution to support their ongoing operational needs.

INDUSTRY

Other

LOCATION

Abu Dhabi, United Arab Emirates

APPLICATION DATE

February 2026

PRODUCTS

Belzona 1121 (Super XL-Metal)
Belzona 5811 (Immersion Grade)
Belzona 9111 (Cleaner Degreaser)

SUBSTRATE

Carbon steel

PHOTOS

1. The tyre rims of the wave-generation system have developed corrosion, which could result in air leakage within a short period of operation if not addressed.
2. The procedure began with grit blasting to obtain the specified surface profile, followed by thorough surface cleaning using Belzona 9111 (Cleaner Degreaser).
3. The pitted areas were subsequently restored using Belzona 1121 (Super XL-Metal) in accordance with the Belzona Instructions for Use (IFU). Upon completion of curing, the first coat of Belzona 5811 was applied.
4. Finally, a two-coat application of Belzona 5811 (Immersion Grade) was carried out in accordance with the IFU guidelines, ensuring long-term corrosion resistance and durable protection.

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