Radiator End Cap Refurbishment

ID: 10153

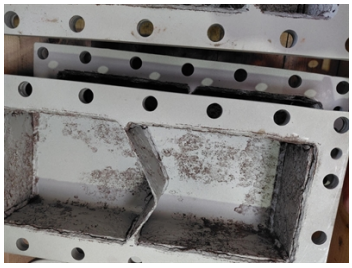
Industry:	*Power*	Customer Location:	*Auckland, New Zealand*
Application:	*HEX-Heat Exchangers*	Application Date:	*November 2025*
Substrate:	*Carbon steel*		
Products:	*Belzona 5811DW (DW Immersion Grade)*		

Problem

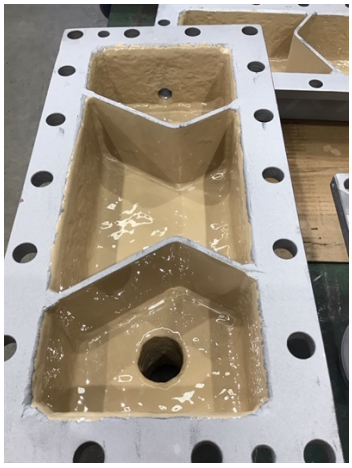
The end caps were heavily corroded internally, and leakage at the sealing faces had led to reduced efficiency and the risk of damage to other systems.



This section shows the original condition of the end caps prior to refurbishment.



The surfaces were grit blasted to SSPC-SP10 or ISO Sa 2.5 in accordance with ISO 8501-1.



The surfaces were coated with two coats of Belzona 5811DW (DW Immersion Grade).



The end caps were fully reassembled with washers and are ready to be returned to service.

Application Situation

The radiator end caps were suffering from corrosion, which was affecting performance. Small leaks had begun to develop at the sealing faces, and the client was concerned that the heat exchanger could fail without immediate attention.

Application Method

After grit blasting, the internal faces were coated with two coats of Belzona 5811DW (DW Immersion Grade) to protect against future corrosion. New gaskets were manufactured and installed.

Belzona Facts

The alternative was to replace the heat exchanger, which would have resulted in an extended period of downtime and significant expense, both of which were unacceptable.

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

Repair • Protect • Improve

Copyright © Belzona International Limited 2026