

BELZONA SOLUTION FOR REBUILDING AND COATING OF CHILLERS

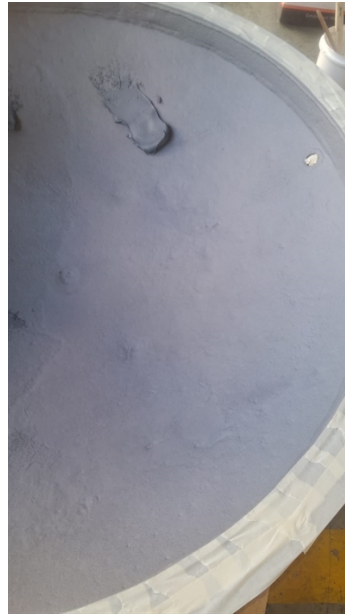
ID: 9762

Industry: Heating, Ventilation & Air Conditioning
Application: HEX-Heat Exchangers
Substrate: Carbon steel
Products: Belzona 1121 (Super XL-Metal), Belzona 5821

Customer Location: DUBAI, UNITED ARAB EMIRATES
Application Date: January 2025

Problem

The tube sheet and end cover of the chiller units experienced severe corrosion, resulting in a significant decline in efficiency. Additionally, the wear around the gasket seals prevented a proper seal, further impacting the chiller's performance.



Tube sheet and end cover of the chiller units experienced severe corrosion.

Surface was grit blasted and thoroughly cleaned.

Belzona 1121 (Super XL-Metal) was used to rebuild and resurface the worn areas.

Belzona 5821 was applied as a two-coat system to protect the tube sheet and end cover from corrosion and erosion.

Application Situation

The client selected Belzona for its exceptional corrosion and erosion resistance, which has been consistently proven over the years. Our key selling point was the extended durability that Belzona coatings provide for valuable assets. We also emphasized that merely chemically cleaning the corrosion is not a sufficient solution, as the damage continues to progress even after cleaning. Additionally, we highlighted a major advantage—the ability to return the chillers to service in less than 48 hours after the repair.

Application Method

1. The surface was grit blasted and thoroughly cleaned.
2. Plastic/rubber plugs were inserted during surface preparation to prevent media from entering the tubes. These plugs were then removed and reapplied before the product application.
3. Belzona 1121 (Super XL-Metal) was used to rebuild and resurface the worn areas, while Belzona 5821 was applied as a two-coat system to protect the tube sheet and end cover from corrosion and erosion.

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

Belzona Facts

The customer benefited from a proven, high-performance solution that minimized downtime and enhanced the longevity of their equipment. The durability and reliability of Belzona products also contributed to lower maintenance costs over time, making it a cost-effective choice for their ongoing operational requirements.

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

