

Heat Exchanger End Cover Repaired and Coated with Belzona

ID: 8501

Industry: Power
Application: HEX-Heat Exchangers
Substrate: Carbon Steel
Products: * Belzona 1221 (Super E-Metal) ,
* Belzoan 9341 (Reinforcement Tape) ,
* Belzona 1311 (Ceramic R-Metal) ,
* Belzona 1341 (Supermetalglide) ,

Customer Location: Nova Scotia, Canada
Application Date: May 2021

Problem

Seawater had severely corroded this end cover causing very thin wall conditions leading to holing. Holes were more pronounced after grit blasting. The end cover was also severely pitted.



Photograph Descriptions

- * 1. Internal of end cover after cleaning to remove soluble salts from the substrate. ,
- * 2. End cover freshly grit blasted and ready for Belzona. ,
- * 3. End cover pits/holes filled with Belzona 1311 and first coat of Belzona 1341 blue applied. ,
- * 4. Second coat of Belzona 1341 grey applied. ,

Application Situation

Holed and heavily pitted end cover for seawater side of heat exchanger for a local thermal power plant.

Application Method

Belzona 1221 and Belzona 9341 were used to reinforce over the holes on the external side of the end cover. This was to provide a firm backing so the internal repairs could be carried out in accordance with Belzona Know-How System Leaflets HEX-2 and HEX-3.

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
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Belzona Facts

Due to the short outage for this power plant, new end covers were not readily available and would take too long to fabricate. The Belzona repair took 1.5 days to complete, at a fraction of the cost it would be to fabricate new end covers due to the high price of steel.

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