

RESTORING AND COATING E5B HEAT EXCHANGER FACE

ID: 9288

Industry: Steel & Metal Processing

Customer Location: Brazil

Application: HEX-Heat Exchangers

Application Date: July 2011

Substrate: Carbon steel

Products: Belzona 1111 (Super Metal), Belzona 1321 (Ceramic S-Metal)

Problem

Galvanic corrosion on the tube face, caused by contact of 2 dissimilar metals.



1.) Before application



2.) After Blasting



3.) Applying Belzona 1111 for the rebuild



4.) Final application - removal of corks

Application Situation

Rebuilding and coating a heat exchanger in situ, the heat exchanger is used to transfer heat used in the steel manufacturing process.

Application Method

The application was carried out in accordance with system leaflet HEX-01.

The application area was marked out before the tube face was grit blasted to SA2.5, achieving a minimum 75-micron profile. After blasting, the tube face was rebuilt with Belzona 1111, followed by 2 coats of Belzona 1321, each coat was applied at 250-375 microns. After the Belzona had cured, a visual inspection was carried out and any areas requiring touch-ups were marked up, abraded, and then re-coated.

Before the HEX was put back in service, the equipment passed a hydrostatic test carried out by the client under a pressure of 30 kg/cm².

Belzona Facts

The client was satisfied with the solution as the application was carried out in situ and avoided the need to disassemble the HEX.

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ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

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