

# 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/cm<sup>2</sup>.

## 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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