

BELZONA SUPERWRAP II PATCH REPAIR TO HEAT EXCHANGER SHELL

CUSTOMER

Industrial Gas Supplier, Middlesbrough UK

APPLICATION DATE

August 2019

APPLICATION SITUATION

Heat exchanger pipework

PROBLEM

The heat exchanger had a through wall defect the size of a pin hole in its shell body. An NDT test had been carried out and it was showing wall thinning from within. The internals had been coated with a competitor material which is thought to have broken down, allowing internal corrosion.

PRODUCTS

Belzona 1212

Belzona 1983 (SuperWrap II)

SUBSTRATE

Carbon Steel

APPLICATION METHOD

The application area was prepared to allow application of a 600mm x 600mm patch by means of grit blasting. A preprepared curved plate was then bonded in place over the through wall defect using Belzona 1212. Once cured the area was masked up and a Belzona SuperWrap II patch was installed using Belzona 1983 resin. The Belzona SuperWrap II release film was then wrapped over the repair and the left to cure. The application was carried out in accordance with the Belzona SuperWrap Application Working Procedure along with a modified version of HEX-09.

BELZONA FACTS

The Belzona repair is compliant to ISO/TS 24817, DOT Title 49, Chapter 1, Part 192, and ASME PCC-2 Article 4.1 standards and as such provides a permanent, reinforced, composite repair to the heat exchanger. Belzona Technosol were selected to complete this repair as they are approved applicators in the UK.

PICTURES

1. Defect Area
2. Belzona SuperWrap II patch applied (Wet Lay-up)
3. Release Film applied
4. Completed application



For more examples of *Belzona Know-How In Action*, please visit <http://khia.belzona.com>

ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

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