

BELZONA STOPS COSTS SPIRALLING OUT OF CONTROL

ID: 6076



PROBLEM

An unwanted reaction within these assets is the formation of hot hydrochloric acid, which was then attacking the steel spirals. It was thought that there were only a few weeks left before the heat exchanger would fail. The lead time on a replacement was nearly 12 months.

APPLICATION SITUATION

Spiral Heat Exchangers commonly used within part of the client's facilities.

APPLICATION METHOD

The steel was grit blasted, followed by a brush application of 3 coats of Belzona 4311 in accordance with Belzona Know-How System Leaflet TCC-5.

BELZONA FACTS

The replacement cost for this heat exchanger was over £230,000. Belzona was used to coat the affected areas on both ends of the asset with a material that can withstand hydrochloric acid, even at 60°C. The whole application was completed with only minor material costs of about £600. The client then repeated the application on a further two identical spiral heat exchangers the following year.

INDUSTRY

General Industry

LOCATION

Pigment Manufacturer, UK

APPLICATION DATE

2010

PRODUCTS

Belzona 4311 (Magma CR1)

SUBSTRATE

Carbon Steel

PHOTOS

1. One end of spiral heat exchanger untreated
2. Belzona 4311 application underway
3. Close up of coating
4. Completed application

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