

# Belzona protects a Heat Exchanger in a CHP Plant

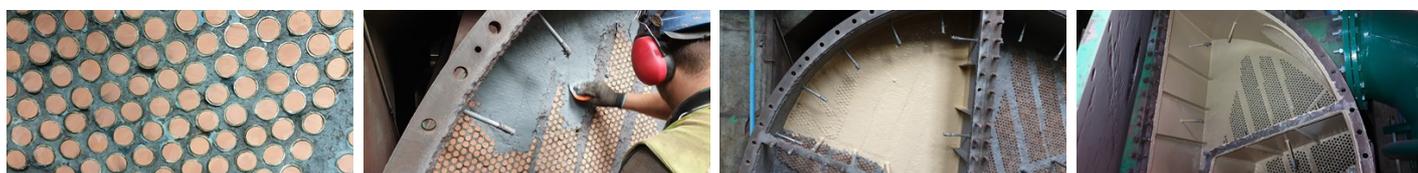
ID: 8496

Industry: Power  
Application: HEX-Heat Exchangers  
Substrate: Steel  
Products: \* Belzona 1121 (SUPER XL-METAL) ,  
\* Belzona 5811 (Immersion Grade) ,

Customer Location: Southern Poland  
Application Date: 2021

## Problem

The problem was erosion and corrosion of the tube sheets and capacitor chambers. Erosion occurred as a result of liquid flow, galvanic corrosion occurred at the contact of the exchanger's copper pipes with the steel tube sheet. This led to deep pits. The result was a loss of tightness of the exchanger, which resulted in a decrease in efficiency and, consequently, a reduction in energy efficiency.



## Photograph Descriptions

- \* Image 1: Corking of Tube Sheets ,
- \* Image 2: Application of Belzona 1121 ,
- \* Image 3: Application of Belzona 5811 ,
- \* Image 4: Complete Job ,

## Application Situation

Protection of a heat exchanger at the CHP plant in Southern Poland.

## Application Method

Corking of tube sheets. Abrasive blasting of the perforated plates, chambers and condenser bottom. Cutting off the protruding parts of the plugs. Thorough dedusting of the entire surface to be repaired. Filling the spaces between the tubes and deep pits with Belzona 1121 followed by Belzona 5811 application in a two layer system in accordance with Belzona System Leaflet HEX-1

## Belzona Facts

Belzona can offer an In-situ application allowing a reduction in downtime for the customer.

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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9000 Registered Quality  
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