

# BELZONA CHILLS OUT BREWERY

ID: 167

**Industry:** Heating, Ventilation & Air Conditioning  
**Application:** HEX-Heat Exchangers  
**Substrate:** Copper tubes, steel tube sheet  
**Products:** \* Belzona® 1311 (Ceramic R-Metal) ,  
\* Belzona® 1321 (Ceramic S-Metal) ,

**Customer Location:** A Mid-Western Brewery in Missouri  
**Application Date:** December 1995

## Problem

*The tube sheet was badly eroded/corroded. There were numerous leaks between the tubes and the tube sheet.*



## Photograph Descriptions

- \* Close up view of one of the eroded/corroded areas ,
- \* Application of Belzona® 1321 over Belzona® 1311 ,
- \* Completed job, tube sheet rebuilt ,

## Application Situation

One of three lithium bromide chillers used to cool beer to 70°F during the manufacturing process

## Application Method

The application was carried out in accordance with Belzona Know-How Leaflet HEX-1.

## Belzona Facts

The area coated was 60 sq. ft. on each end. Two more units are scheduled this year. The customer benefited by saving replacement costs, reduced down time and continuation of the manufacturing process.

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

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

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manufactured under an ISO  
9000 Registered Quality  
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