

BELZONA ON EVAPORATOR TUBE SHEETS

ID: 13

Industry: *Pulp & Paper*

Customer Location: *Pulp & Paper Mill - British Columbia, Canada*

Application: *HEX-Heat Exchangers*

Application Date: *1994*

Substrate: *Stainless steel tubes and mild steel tube face.*

Products: ** Belzona® 1391 ,*

Problem

Erosion / corrosion of the tube sheet due to hot caustic black liquor at approximately 185°F and galvanic corrosion between the stainless steel tubes and mild steel tube face.



Photograph Descriptions

- * View of tube sheet showing erosion. ,
- * Application of Belzona® 1391 via injection pistol to top tube sheet. Product was brushed into place around tubes and allowed to flow level. ,
- * Tube sheet inspection of Belzona® 1391 after 2 years in service. ,

Application Situation

Evaporator tube sheet.

Application Method

Application was carried out in accordance with a modified version of Belzona Know-How Leaflet HEX-1.

Belzona Facts

Belzona has been providing protection for evaporator tube sheets at this mill since April 1992. All three applications are still in service. The first application utilized Belzona® 1321, and while the coating has now since eroded away the Belzona product is still adhering in the "grooves" around the tubes, reducing erosion in this area dramatically. The application is scheduled to be refurbished. The other two applications are just short of 3 & 4 years old respectively. A fourth application (new) is planned.

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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