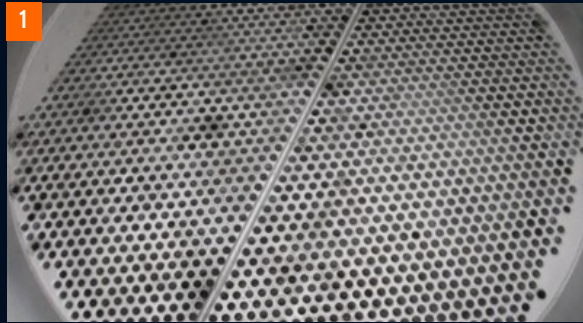


BELZONA REBUILDS ERODED TUBE SHEET BASE

ID: 5290



PROBLEM

The molten slag is dripped into water spray which cools it to form granules much like grains of sand. The slag is removed and the water is then cooled and reused in a closed cycle

APPLICATION SITUATION

Eroded tube sheet base

APPLICATION METHOD

The application was carried out in accordance with a modified Belzona Know-How System Leaflet HEX-1. And using tapered EPDM plugs in the tubes. Belzona 1391 was injected and allowed to flow around the EPDM plugs forming a new “ceramic base”, then plugs were removed after the material had cured.

BELZONA FACTS

This tube sheet was horizontally situated and contained 2300 tubes. Operating at 80°C, it was decided to use Belzona 1391. The use of tapered EPDM Plugs meant that each tube opening was conical and easy to remove once material had cured.

INDUSTRY

Heating, Ventilation & Air Conditioning

LOCATION

BC, Canada

APPLICATION DATE

October 2010

PRODUCTS

Belzona 1391 (Ceramic HT)

SUBSTRATE

Mild Steel

PHOTOS

1. The tube sheet was grit blasted to a near white metal finish leaving a blast profile of approximately 3 mil.
2. The EPDM plugs were inserted into each of the 2300 holes and levelled off with a straight edge. Belzona 1391 was injected into the space around the EPDM plugs to a depth of $\frac{3}{4}$ inch in places.
3. The EPDM plugs were removed after the material cured, leaving a smooth Thconical hole.

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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