

BELZONA REPAIRS AND PROTECTS SX/EW TANKHOUSE CELL

ID: 4931



PROBLEM

Polymer concrete SXEW process cells had been experiencing cracking which caused leakage of copper sulfate electrolyte solution. The furniture rails which suspend the copper anode plates were experiencing resin burnout from heat transfer through the cathodes.

APPLICATION SITUATION

Copper mine SX/EW processing tankhouse was experiencing numerous process and maintenance problems due to sulfuric acid attack at 120°F.

APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How System Leaflet TCC-3. The cell surfaces were prepared by a combination of grit blasting and grinding. Then the furniture rails were formed and repaired with Belzona 4111. Finally Belzona 4341 was applied monolithically to prevent further damages.

BELZONA FACTS

Since 2011, Belzona has repaired and protected numerous cells, with no leaks or additional furniture rail damages. Currently Belzona is carrying out a furniture rail repair project with 116 cells specified for repairs.

INDUSTRY

Mining & Quarrying

LOCATION

Copper Mine, Arizona

APPLICATION DATE

2011 - 2013

PRODUCTS

Belzona 4111 (Magma Quartz)
Belzona 4341 (Magma CR4)

SUBSTRATE

Polymer concrete

PHOTOS

1. Overview of the tankhouse cell
2. Furniture rails repaired with Belzona 4111
3. Tankhouse cell protected with Belzona 4341
4. Tankhouse cell protected with Belzona 4341

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

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