

# Massive Seawater Evaporator Protected with Belzona 5892 at a Power Plant in Saudi Arabia

ID: 10118

Industry: Power  
Application: TCC-Tanks and Chemical Containment Areas  
Substrate: Carbon steel  
Products: Belzona 1511 (Super HT-Metal), Belzona 5892

Customer Location: Saudi Arabia  
Application Date: April 2023

## Problem

A seawater evaporator at a power plant in Saudi Arabia was facing a severe internal corrosion issue.



General overview of the seawater evaporator



Condition before Belzona 5892 application



After grit blasting surface preparation and salt testing



Completed application of Belzona 5892 system

## Application Situation

The application of Belzona 5892 on the seawater evaporator provided substantial cost and time efficiencies by eliminating the need for costly replacement or extensive fabrication work.

## Application Method

The Belzona 5892 system was applied on the seawater evaporator following a strict procedure: the surface was first prepared by abrasive blasting to achieve Sa 2½ cleanliness and a 75 micron profile using a grit blasting system. After thorough cleaning and inspection, deep pitting was rebuilt with Belzona 1511 (Super HT-Metal) and then Belzona 5892 was applied in two coats to meet the specified thickness. Wet film gauges were used during application, and curing was monitored as per the data sheet, followed by final checks using a holiday detector and dry film thickness gauge.

## Belzona Facts

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

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

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Repair • Protect • Improve

Belzona was selected because previous vendor solutions failed to provide lasting protection, leading to repeated maintenance and higher costs. Belzona 5892 offers superior resistance to seawater corrosion and high temperatures, ensuring long-term reliability in service.

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