

Seawater filter inlet area restored with Belzona

ID: 7988

Industry: Steel & Metal Processing
Application: VPF-Valves, Pipes and Fittings
Substrate: Steel
Products: * Belzona 1161 (Super UW-Metal) ,
* Belzona 9341 ,

Customer Location: Spain
Application Date: April 2018

Problem

The area connecting the inlet area to the main section of the seawater filter is suffering from corrosion due to the presence of salts. In one of the defect areas, the damage has become through wall and started to leak. This puts additional strain on the seawater pumps to maintain the pressure of flow rate.



Photograph Descriptions

- * 1. Corrosion on rim of inlet area ,
- * 2. Through wall defect area prepared ,
- * 3. Surface preparation on external surface ,
- * 4. Completed repair ,

Application Situation

A seawater filter bringing in water for the cooling system of a Copper production facility. Access to the area is limited, space around the equipment is tight and using specialist tools in the area will be difficult.

Application Method

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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The seawater filter was taken out of service and drained. The surface was prepared using a mechanical grinder to both the internal and external surface. Belzona 1161 was used to cover the defects around the entire circumference of the inlet area. Where there was a through wall defect, Belzona 9341 was incorporated into the repair to add strength. The application was carried out in accordance with Belzona System Leaflet VPF-11.

Belzona Facts

Due to the limited access to the area, blasting equipment could not be brought into the area to prepare the surface. Additionally, the area was sheltered and away from sunlight, meaning it would take time for the substrate to become fully dry even after draining. It was therefore necessary to use Belzona 1161, as it can be applied to wet surfaces and achieves strong adhesion to surfaces prepared with a mechanical grinder. This helped to reduce the downtime of the equipment.

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