

SEAWATER FILTER INLET AREA RESTORED WITH BELZONA

CUSTOMER

Spain

APPLICATION DATE

April 2018

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.

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 put additional strain on the seawater pumps to maintain the flow rate pressure.

PRODUCTS

Belzona 1161 (Super UW-Metal)

Belzona 9341

SUBSTRATE

Steel

APPLICATION METHOD

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 Know-How 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.

PICTURES

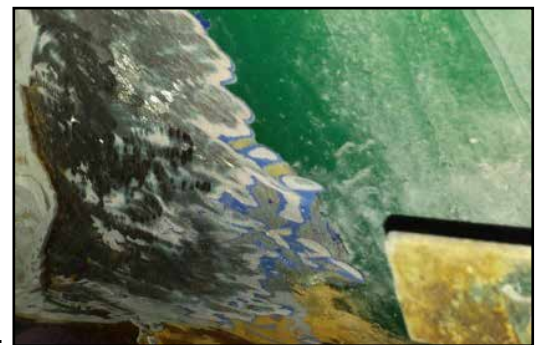
1. Corrosion on rim of inlet area
2. Through wall defect area prepared
3. Surface preparation on external surface
4. Completed repair



1.



2.



3.



4.

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