

BELZONA REPAIR OF RAIL PRINT INTERFACE ON A SINGLE POINT MOORING TURRET

CUSTOMER

India

APPLICATION DATE

December, 2017

APPLICATION SITUATION

Repair of the support flange for the rail on a mooring buoy turret.

PROBLEM

Severe pitting, galvanic and crevice corrosion on the rail support flange. Welding was not an option due to the location of the damage and the need for the surface to be accurately flat for the proper sitting of the rails.

PRODUCTS

Belzona 1111 (Super Metal)

SUBSTRATE

ABS EH36 (normalized carbon steel)

APPLICATION METHOD

The surface preparation was carried out by power brushing and grinding deep crossed pattern grooves. Application was done manually with Belzona applicators, plugging the holes where the rails will be bolted to the structure. Leveling of the surface was done with a flat plate segment and side flat guide bars with a width of about 175 mm placed at the rail print area for leveling and for flatness check.

BELZONA FACTS

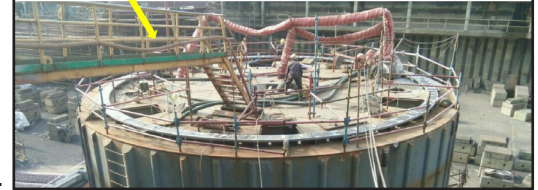
Rebuilding the rail support flange with Belzona 1111 allowed the asset owner to save money and time. Welding would have been much more time and manpower consuming, while machining on site would have been very complicated, time consuming and costly. Apportioning new metal to rebuild the rail print wouldn't have solved the problem since the risk of galvanic corrosion would not have been eliminated. A Belzona 1111 rail print interface could be adopted in new fabricated turrets in order to extend the life span of the asset.

PICTURES

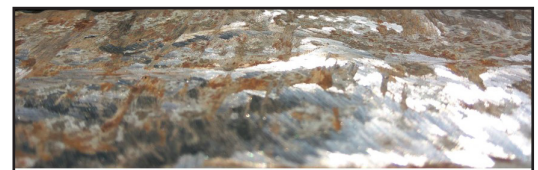
1. Single Point Mooring Buoy and problem area.
2. Details of the pitting/crevice corrosion underneath the rail
3. Surface preparation and application.
4. Completed application.



1.



2.



3.



4.



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