

BELZONA KEEPS RIG RUNNING AFTER GLASS FLAKE FAILURE

CUSTOMER

North Sea, UK

APPLICATION DATE

May 2015

APPLICATION SITUATION

A 52" diameter seawater discharge caisson made up of 5 sections of varying lengths (between 11 and 15 meters) on an offshore oil rig required internal corrosion protection.

PROBLEM

Existing caisson had been lined with a glass flake coating, which has since failed. HSE authority have requested for the caisson to be replaced or the rig would have to be shut down. Given the short notice, metal cladding of the caisson was no longer an option. Additionally, the customer would not repeat the same mistake by specifying a glass flake coating again. A key parameter in the material selection was the design life of 35 years. The lining option would have to be robust and remain maintenance-free for a long time.

PRODUCTS

Belzona 1381

Belzona 1111 (Super Metal)

SUBSTRATE

Steel

APPLICATION METHOD

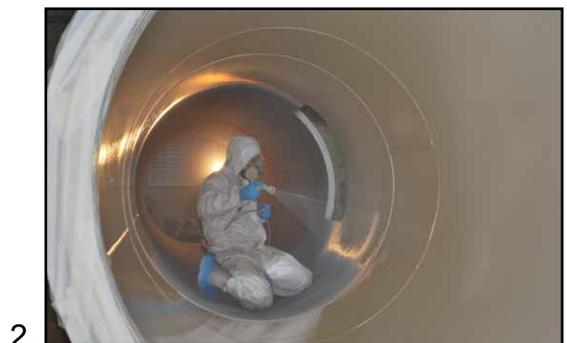
The application was carried out in accordance with Belzona Know-How System Leaflet VPF-2. The coating was applied at a thickness of 2 x 1000 microns to optimise longevity of the equipment. Flange faces were protected with Belzona 1111.

BELZONA FACTS

Maintenance work on a caisson would be very difficult due to access. Based on many years of previous experience with Belzona materials as well as features of the novel Belzona linings, the client was satisfied that choosing Belzona 1111 and Belzona 1381 was the best option to ensure uninterrupted running of the rig.

PICTURES

1. Grit blasted caisson
2. Spray application in progress
3. Lining thickness being measured
4. Completed application



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