

BELZONA RESTORES WEMCO FLOTATION CELL

ID: 5825

Industry: Oil & Gas

Customer Location: Gulf of Mexico, USA

Application:

Application Date: October 2014

Substrate: Carbon Steel

Products:
* Belzona 1121 (Super XL-Metal) ,
* Belzona 4151 (Magma-Quartz Resin) ,
* Belzona 9371 (Reinforcement Sheet) ,
* Belzona 5811 (Immersion Grade) ,
* Belzona 5111 (Ceramic Cladding) ,
* Belzona 9111 (Cleaner Degreaser) ,

Problem

Severe corrosion of internals/externals causing through/thin wall defects and loss of containment. Besides, the hatch covers could not seal properly.



Photograph Descriptions

- * View of Wemco unit exterior before the blasting/cleaning. ,
- * Close up view of the metal loss. ,
- * View of restoration in progress after the first coat of Belzona 5811. ,
- * Completed application with a top coat of Belzona 5111. ,

Application Situation

Wemco unit on offshore oil & gas production platform.

Application Method

All internal/external surfaces were grit blasted to SP 10 (Near White Metal) with a minimum anchor profile of 3 mils. Belzona 9111 was used to clean and degrease all surfaces. Belzona 1121 was used to repair pitted areas and restore the surface to its original profile. Small hole through defects (2" dia. or less) were repaired by using Belzona 1121/4151/9371 for a composite patch and larger defects were repaired by cold plate bonding using Belzona 1121 to adhere plates. Hatch cover seal areas were restored to the level profile with Belzona 1121 and sanded smooth. A two coat system of Belzona 5811 was applied to all internal/external surfaces

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
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and a top coat of Belzona 5111 was applied to external surfaces.

Belzona Facts

The asset owner elected to restore the Wemco unit for economic reasons. A new system would have considerable downtime and a replacement cost in excess of US \$1 M, whereas restoration was about US \$ 100,000 with minimum downtime.

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