
BELZONA® REPAIRS DEWATERING CENTRIFUGE

CUSTOMER

Wastewater treatment plant in California U.S.A.

APPLICATION DATE

February 2001

APPLICATION SITUATION

Worn flights on a Humboldt Dewatering Centrifuge.

PROBLEM

Sludge constantly got behind wear tiles which caused corrosion as well as erosion of the flights. The unit became unbalanced and tiles frequently delaminated, requiring constant maintenance consisting of welding and retiling.

PRODUCTS

Belzona® 1111 (Super Metal)

Belzona® 1811 (Ceramic Carbide)

SUBSTRATE

Carbon Steel

APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How System Leaflet SHM-7. In-house staff prepared the flights by grinding and using Belzona® 1111 to grout and back tiles onto the flight blades. Following the initial cure, Belzona® 1811 was used to further protect the blades around the feed ports which suffered from the highest amount of abrasion along with the recessed bolts that held the tiles.

BELZONA FACTS

This application took place at the largest wastewater facility in the country. By using Belzona, it protected the flights and extended the time between routine servicing and maintenance.

PHOTOS

1. Applying Belzona® 1111 (Super Metal) to tiles.
2. Fastening tiles to the flights.
3. Tiles installed along circumference of flights.
4. Belzona® 1811 applied over bolts and inlet port areas.



1.



2.



3.



4.

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