

# BELZONA REPAIRS VACUUM PUMP

ID: 5509

Industry: General Industry  
Application: PDP-Positive Displacement Pumps

Customer Location: Engineering Co., Svetogorsk, Russia  
Application Date: November 2008

Substrate: Cast iron  
Products: \* Belzona 1311 (Ceramic R-Metal) ,  
\* Belzona 1321 (Ceramic S-Metal) ,

## Problem

Pump casing, impeller and end plates damaged by erosion and corrosion as a result of handling medium contaminating the water seal, leading to a rapid loss in efficiency.



## Photograph Descriptions

- \* Surface preparation of pump impeller ,
- \* Repair of the damaged pump rotor in progress ,
- \* Close up view of restored side of the pump ,
- \* Completed repair of the pump rotor and casing ,

## Application Situation

Liquid ring vacuum pump.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflets PDP-5 and PDP-6. The profiles were restored with Belzona 1311 before coating with Belzona 1321 to provide overall erosion-corrosion protection.

## Belzona Facts

Belzona was the first choice for the customer as a similar repair was completed by Belzona in 2000, which remained in a perfect condition following an inspection after 5 years in-service time with only insignificant colour change of the Belzona material. The client was impressed by the speedy application and long term performance of the equipment with no maintenance work required

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  
Management System.

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Repair • Protect • Improve

as a result of excellent protection provided by Belzona materials.

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