

# Repair of damaged flowing parts of the TG4 storage pump

ID: 9435

Industry: *Power* Customer Location: *Cierny Vah*  
Application: *TCC-Tanks and Chemical Containment* Application Date: *June 2015*  
Areas  
Substrate: *Carbon steel*  
Products: *Belzona 1311 (Ceramic R-Metal), Belzona 1341 (Supermetalgilde)*

## Problem

*Damage to the pump surface by cavitation and the formation of a rough surface.*



View from the outside



Belzona 1341 application



Belzona 1341 application



Belzona 1341 application

## Application Situation

Both systems are primarily intended for the repair of metal parts in flow systems, ensuring the replacement of the loss of the base material due to erosion, corrosion and cavitation effects, and subsequently providing effective protection against the listed effects.

## Application Method

Sealing of the working space under the impellers of the first stage. Drying of the repair area, degreasing of the surface with BELZONA 9121. Blasting of the repaired surfaces to the required standard Sa 2.5 with extraction cleaning of the space and dedusting of the area. Local repair of places and areas where the base material has been lost with BELZONA 1311 Ceramic R Metal. Application of BELZONA 1341 Supermetalgilde to the surface to be repaired in two coats with a thickness of min. 500 µm.

## Belzona Facts

Effective protection against the erosion and corrosion effects. At the same time, BELZONA 1341 improves the overall efficiency of the flow system

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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