

## Belzona Stops the Corrosion Inside of a Tunnel.

ID: 9689

Industry: Water / Wastewater

Customer Location: Seattle Washington

Application: VPF-Valves, Pipes and Fittings

Application Date: August 2016

Substrate: Carbon steel

Products: Belzona 1311 (Ceramic R-Metal), Belzona 1321 (Ceramic S-Metal)

### Problem

Corrosion on this reservoir valve was getting bad, so a stainless steel runner was attached, which resulted in dissimilar metals corrosion which increased the damage rapidly.



Initial inspection, after use of a wire wheel to see the corrosion damage.



Grinding for surface preparation.



Belzona 1311 applied to the corroded areas and over coated with Belzona 1321.



Inspection in May 2017.

### Application Situation

The corrosion from the wet-dry cycle on this older valve was to be expected. The choice to line the guides with stainless steel unfortunately resulted in expedited damage which needed to be addressed. A trial application of Belzona 1311 to rebuild the erosion and Belzona 1321 to provide further protection resulted in a satisfactory inspection 9 month later. The test went so well, they decided to leave it for a while longer confident that it would continue to provide protection, and then the entire valve would be coated when they had the appropriate time to shut the reservoir down.

### Application Method

Battery operated hand tools were used to clean and roughen the application areas. The areas were then washed down with solvent, and the Belzona 1311 and Belzona 1321 were applied by brush.

### Belzona Facts

The protection provided by the chosen Belzona products was well worth the cost of 1 unit of Belzona 1311 and 1 unit of Belzona 1321. This stopped the damage from progressing, and allowed them to plan for a full protective coating of Belzona products.

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Belzona products are

FS 695214

manufactured under an ISO

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