

## Belzona 2200 Series In Action

**Item: Flap valve**

**Industry: Water Authority**

**Medium: Waste Water**

Rubber components either natural or synthetic, eventually fail due to wear, mechanical damage, chemical attack or weathering.

The Belzona 2200 series are two components, cold curing polymeric systems which dispense with need for bulky, difficult to manoeuvre hot vulcanising equipment, while offering a cost effective alternative. These versatile multi purpose elastomers make cost effective repairs possible for large and small jobs alike. They are an ideal choice for applications demanding a high performance elastomeric sealant.

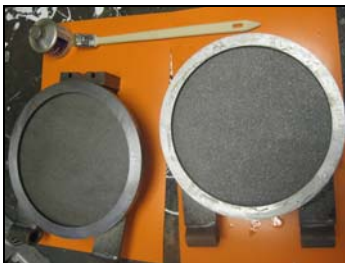
**PSRG** has recently undertaken the repair of 6 valve paddles on behalf of a water treatment works. Previous coatings had failed as can be seen in the below image



**Existing worn coating**

To achieve the correct dimensions of the seal a forming mould was manufacture.

The paddles were grit blasted to SA 2 ½ @ 75 microns so correct surface cleanliness and profile requirement were attained. The forming mould was then clamped into position. Belzona 2221 MP hi build elastomer was then applied and left to cure then removed leaving the paddle repaired



**Paddle prior to coating with mould**



**Paddle during application**



**After application of Belzona 2221**

After 70 days of operation there are still no signs of drop off in pump performance. On the 22nd October 2008 after 100 days (1,750 hours) the engineer removed the valves from the pump so we could inspect the material. As you can see from the pictures the valves show little sign of wear and he was happy to put the valves back into service.



**Condition of coating after 70 days (Lasted three times longer)**

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