

## BELZONA SOLVES FLAP VALVE DAMAGE

### CUSTOMER

Door Component Plant, Central Missouri

### APPLICATION DATE

May, 2008

### APPLICATION SITUATION

Flap valves used in gypsum/perlite transfer system. The valves were lined with ceramic tile.

### PROBLEM

The valves suffered damage on the back of the valve plate due to impact with the valve "stop". This impact would cause breakage/failure of ceramic tiles on the front of the valve, allowing gypsum/perlite mix to cause abrasion damage and prevent valve from sealing upon closure leading to repeated outages of the system.

### PRODUCTS

Belzona® 1812 ( Ceramic Carbide FP)

Belzona® 2111 (D&A Hi Build Elastomer)

### SUBSTRATE

Aluminum/Rubber

### APPLICATION METHOD

Application was carried out in accordance with Belzona Know Show System Leaflet SHM-7. Belzona® 2111 was used to bond a stainless steel striker plate to the back of the valve plate to absorb and distribute the sharp point impact from the valve stop. Belzona® 1812 was used to repair valve with broken tile and ultimately replace tile altogether for abrasion resistance on front of valve.

### BELZONA FACTS

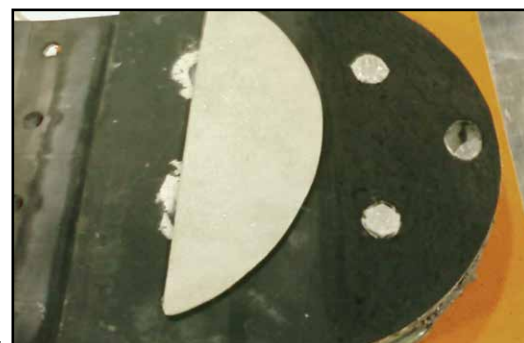
After 7 months in service, valve plates show no signs of damage, compared with average life of 1-2 months before failing prior to Belzona Solution. Based on this success, customer has extended use of Belzona® 1812 and 2000 series products to many other applications throughout the plant.

### PICTURES

1. Valve plate showing impact damage on back from striking the valve stop
2. Striker plate and valve plate prepared for application
3. Striker plated bonded to back of valve plate with Belzona® 2111
4. Ceramic tile repaired with Belzona® 1812 on one valve, tile replaced with Belzona® 1812 on second valve



1.



2.



3.



4.

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