

BELZONA SOLVES FLAP VALVE DAMAGE

ID: 1231

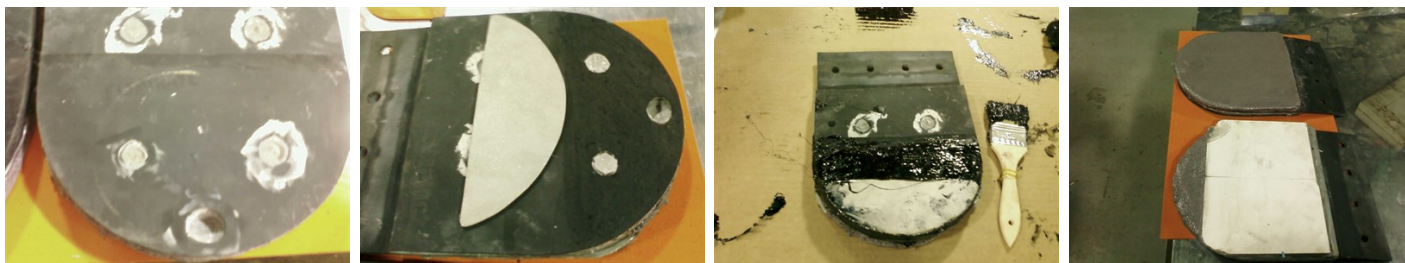
Industry: General Industry
Application: SHM-Solids Handling Machinery

Customer Location: Door Component Plant, Central Missouri
Application Date: May, 2008

Substrate: Aluminum/Rubber
Products: * Belzona® 1812 (Ceramic Carbide FP) ,
* Belzona® 2111 (D&A Hi Build Elastomer) ,

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.



Photograph Descriptions

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

Application Situation

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

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

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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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.

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