

Mitigating the abrasive effect of ash with Belzona lining

ID: 10092

Industry: Power

Application: SHM-Solids Handling Machinery

Customer Location: Western part of Croatia

Application Date: February 2024

Substrate: Carbon steel

Products: Belzona 1812 (Ceramic Carbide FP)

Problem

A metal element is placed within the ash treatment system of a coal-fired powerplant. It is exposed to abrasion from ash particles being transported, which leads to wall thinning and eventually failure.



Grit blasted element before application.



Application of Belzona 1812 on side openings, using mixing bowl as a former.



Application of Belzona 1812 on internal surfaces.



Application completed.

Application Situation

Rectangular section element needed to be protected from abrasion caused by ash particles which move turbulently through the element. Customer wanted to prevent premature failure and extend lifetime of the element. We could secure both.

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet SHM-13. Surfaces were grit blasted and degreased with acetone. Belzona 1812 was applied to all internal surfaces of the element using Belzona application tools.

Belzona Facts

Customer has previous good experiences with Belzona 1812, so he approached us with this problem. The element was being preventively replaced every year. Based on our previous experiences, we could guarantee that lifetime will be multiplied with Belzona 1812 lining, which put us ahead of alternative solutions (competitors). Furthermore, Belzona 1812 lining can be easily refurbished (partially or completely) once it is worn, in some cases even without dismantling the element.

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

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