

BELZONA SUCCEEDS WHERE NOBLE METALS FAIL

ID: 5978

Industry: General Industry

Application: SHM-Solids Handling Machinery

Customer Location: Manufacturer, Varese, Italy

Application Date: November 2015

Substrate: Carbon Steel

Products: * Belzona 1811 (Ceramic Carbide),
* Belzona 4151 (Magma-Quartz Resin),

Problem

Severe dry abrasion from ferrite powder was wearing mixer wheel despite being constructed from expensive noble metal alloy. Belzona consultant recommended lining a carbon steel wheel with Belzona.



Photograph Descriptions

- * Carbon steel wheel after grit blasting ,
- * One of the templates used for the application ,
- * Application in progress ,
- * Completed application ,

Application Situation

Ferrite wheel mixer

Application Method

The application was carried out in accordance with a modified version of Belzona Know-How System Leaflet SHM-13. Prefabricated custom made templates were used to carry out the application of Belzona 1811 at a thickness of approximately 10mm on all surfaces of the wheel. Belzona 4151 was then applied to provide a glossy finish.

Belzona Facts

Belzona was able to solve a substantial problem of dry abrasion in the presence of strong concentrations of chlorides. In fact, using a carbon steel wheel coated with Belzona 1811 quadrupled component's life to 4000 hours. The original noble metal alloy wheels lasted 1000 hours in service.

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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