

BELZONA SUCCEEDS WHERE NOBLE METALS FAIL

ID: 5978



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.

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.

INDUSTRY

General Industry

LOCATION

Manufacturer, Varese, Italy

APPLICATION DATE

November 2015

PRODUCTS

Belzona 1811 (Ceramic Carbide)
Belzona 4151 (Magma-Quartz Resin)

SUBSTRATE

Carbon Steel

PHOTOS

1. Carbon steel wheel after grit blasting
2. One of the templates used for the application
3. Application in progress
4. Completed application

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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