Belzona Protects a Dryer Roller in a Paper Manufacturing Plant

ID: 10077

Industry:	*Pulp & Paper*	Customer Location:	*Jeddah, Saudi Arabia*
Application:	*VPF-Valves, Pipes and Fittings*	Application Date:	*March 2023*
Substrate:	*Carbon steel*		
Products:	*Belzona 1391T,Belzona 1511 (Super HT-Metal)*		

Problem

The dryer roller surface was suffering from severe corrosion due to the chemicals used in the wash solution coupled with elevated temperature and high humidity.



Corroded dryer roller caused by chemical washing, high temperature and humidity



Close-up view of corroded dryer roller surface



Surface preparation via abrasive grit blasting



Dryer roller after the application of Belzona 1511 (Super HT-Metal) and Belzona 1391T to restore metal loss

Application Situation

Belzona offered significant cost savings by eliminating the need for extensive equipment replacement or prolonged downtime. The application was completed within 3 working days. This minimized operational disruption and allowed for a quicker return to service.

Additionally, the Belzona solution provided a long-term protective barrier, reducing the likelihood of future failures and associated maintenance costs, further enhancing its value proposition.

Application Method

Belzona 1511 (Super HT-Metal) was applied to rebuild and restore areas of significant metal loss on the dryer surface, effectively reinstating its original profile and structural integrity. Following the repair, Belzona 1391T, a high-performance, high-temperature resistant coating, was applied to the entire repair area. This coating provides long-term protection against corrosion, erosion, and chemical attack, ensuring enhanced durability and extending the operational life of the dryer under demanding service conditions.

Belzona Facts

Belzona solutions often reduce long-term maintenance costs by minimizing downtime, extending equipment life, and eliminating the need for costly replacements.

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