

BELZONA PROTECTS SPRAY CASTER FAN

ID: 5234



PROBLEM

Pitting, erosion, corrosion, delamination and accumulation of dirt from the humidity prematurely degrades the life expectancy of the fan blades. Additionally, cleaning and balancing are difficult due to dust penetration and clinging to the blades.

APPLICATION SITUATION

Spray caster chamber fan discharges particles, dust and heat from the mill located down from the blast furnaces. Heat and abrasion are critical factors. Fans are exposed to small parts of bromide and bleach, less than 24ppm.

APPLICATION METHOD

Application was carried out in accordance with Belzona Know-How System Leaflet FBC-2 and the IFU for Belzona 5891. Fan was grit blased with sand, cleaned with Belzona 9111 and two coats of Belzona 5891 applied.

BELZONA FACTS

Belzona 5891 HT was selected because it met the temperature exposure limits as well as the chemical exposure contained in the water. Customer has coated two fans that are still in service today. Previously, they were replacing spray caster fans every 18 months.

INDUSTRY

Power

LOCATION

Steel Mill, South Carolina

APPLICATION DATE

July 2011

PRODUCTS

Belzona 5891 (HT Immersion Grade)
Belzona 9111 (Cleaner Degreaser)

SUBSTRATE

Cast Iron

PHOTOS

1. Spray Chamber Caster Fan showing pitting, corrosion
2. Impeller fan blade after grit blasting
3. Spray caster with first coat of Belzona 5891
4. Bottom of spray caster wheel after second coat of Belzona 5891

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