

Furnace Air Intake Blower

ID: 9588

Industry: Heating, Ventilation & Air Conditioning

Customer Location: New Brunswick

Application: FBC-Fans, Blowers and Compressors

Application Date: April 2023

Substrate: Carbon steel

Products: Belzona 1311 (Ceramic R-Metal), Belzona 1321 (Ceramic S-Metal)

Problem

Infiltration of Perlite dust into the blower system causing very quick abrasive damage to blower fins.



Worn blower, about half way through its usual lifespan, makeshift balancing bolts.



Blasted fan with 1311 reinforcing welds and filling holes and pits



2 coats of 1321 on inside and all fins + welds. 2 colors as a wear indicator for inspection

Application Situation

These blowers were wearing quickly and often outpaced the scheduled maintenance period. Required unscheduled downtime in as little as 3 months use.

Application Method

Blower was grit blasted, plastic tool filling, brush applied coating. Baked in oven at 40C for quick return to service.

Belzona Facts

Very fine abrasive action from the perlite dust required something able to withstand the effects. Alternative is replacement for a blower that will wear just as quickly and costs about 5000\$ CAD.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

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EMS 695213

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