

BELZONA PROTECTS EXHAUST FAN FROM EROSION

ID: 5289



PROBLEM

The fan moves hot, moist, particulate laden exhaust air from the dryers. The hot air erodes the replaceable hardened steel blade faces while the swirling mixture erodes the back faces of the fan blades, compromising its structural and strength.

APPLICATION SITUATION

Exhaust fan

APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How System Leaflet FBC-1 and FBC-2.

BELZONA FACTS

Using Belzona 1811 to fare in and smooth the blade back help to reduce the swirl effect and protect the blade. On the blade faces, Belzona 1391 acts as a sacrificial coating and has proven to almost double the service life of the AR plate. It is planned to reapply Belzona 1391, when necessary, in situ to extend the service life even further.

INDUSTRY

Marine

LOCATION

BC, Canada

APPLICATION DATE

May 2010

PRODUCTS

Belzona 1391 (Ceramic HT)
Belzona 1811 (Ceramic Carbide)

SUBSTRATE

Mild Steel

PHOTOS

1. The leading faces of the fan blades are protected with Belzona 1391.
2. The backside of the fan blades are protected with Belzona 1811.
3. Completed application with both front and back of the fan blades protected.

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

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