

MAXIMISING ASSET LIFE WITH HUMIDUR COATING

CASE STUDY



HUMIDUR.



HUMIDURCHAR.

TYPE OF SERVICES



CONTRACT INFORMATION

CLIENT

Alcoa -Portland Aluminium

SITE

Portland, Victoria

SCOPE

Provision of blasting and painting services for the 90m 162YC ducting tower at the Portland Aluminium site

PRIORITY SEGMENT

Metals

CONTRACT DURATION

2 years

VEOLIA EXPERTISE

- Protective Coatings
- Painting services

SOLUTION

- Use of Humidur® coating system

CLIENT'S CHALLENGE

Veolia was contracted by our client Portland Aluminium to completely repaint their ducting tower 162YC on their Portland site in Victoria. Veolia was tasked with blasting the entire tower with a grit blasting system and applying a 3-coat painting system for corrosion protection.

Our client was faced with strong cost reduction targets and was looking at minimising the budget for this scope of work, as well as the overall timeline to complete the painting.

VEOLIA'S SOLUTION

To deliver on our client's cost reduction targets and reduce the project's overall timeline, Veolia proposed Humidur® single coat system (distributed by Matrix) for corrosion protection on Portland Aluminium's 162YC ducting tower.

Unlike the three-coat painting system that Veolia used to apply in the past, Humidur® is an environmentally-friendly single coat protective coating system. Humidur® can be applied straight onto the substrate after surface preparation, which saves on primers and creates less waste.

In addition, it is surface tolerant, which means that it requires less surface preparation, reducing time spent on tools for coating removal. The Humidur® system is weather-resistant and can cure underwater and in freezing temperatures; this proved to be highly beneficial during the wet and colder months.

Costs reduced by
13%

Overall Timeline reduced by
2 Months

Waste Production reduced by
30%



Humidur® coating is a relatively known product in Australia and using this type of protective coating requires training. This training is organised by Matrix, the sole Australian distributor of Humidur®, to ensure excellent product performance and optimize cost reduction targets. Our accredited trainer has undertaken 5 weeks of training and has spent numerous hours applying the product.

PROCESS DESCRIPTION

Humidur®'s single coat system requires 2 main procedures :

1. SURFACE PREPARATION

Before applying Humidur coating, the steel structure surfaces of the ducting tower were prepped for painting. Surface preparation includes removing fouling, dirt and salts with a powerwash followed by surface degreasing. If the desired salt levels are not met, the surface is rewashed.

After the washing process was finalised, our operators whip blasted the surfaces up to a degree of Sa 2.5 to remove any defective coating. The surfaces were finally blown down with compressed air and all relevant quality assurance checks were performed.

2. COATING APPLICATION

Once surface preparation was completed, the blasted areas were stripe coated and masked for paint protection. A single coat of Humidur® FP was applied using a spray method. The coating was touch dry after 3 hours and fully cured within 24 hours. The fully cured surfaces were then demasked by our operators.

THE BENEFITS FOR OUR CLIENT

By using Humidur® single coat system, Veolia brought the following benefits to our client, supporting them in meeting their targets:

- **Cost savings** - we reduced the overall cost of the protective coating scope by over 13%
- **Time Savings** - our team delivered the works in 9 months instead of the initial 11 months planned
- **Reduced Waste Production** by 30%
- **Environmentally-friendly** coating - solvents, metals and coal tar free product

Humidur® and Humidur® Char by Acotec

Acotec is a company that offers worldwide customer-oriented solutions to manage any type of corrosion or passive fire protection. All Acotec's coatings are sustainable coatings with the aim to protect assets, humans and nature. The head office is based in Aalst, Belgium and has a worldwide distribution network. Acotec serves many companies in the offshore, oil and gas, petrochemical, shipping, marine, mining and energy sector. **Humidur®** is a sustainable and environmentally friendly one-coat anti-corrosion product and is used in various industries and markets. **Humidur® Char** is a sustainable and environmentally friendly PFP coating and is used in the Oil, Gas & Chemical industry. It is a revolutionary invention and proven to protect steel structures with one coat only. Please visit the website www.humidur.com for more information.

