



# Highgate AIR



ProCorro



PROTECTIVE COATING  
**PRO CORRO XR ANTI-CORROSIVE**

How to triple\* the lifespan of A/C parts in highly corrosive environments.



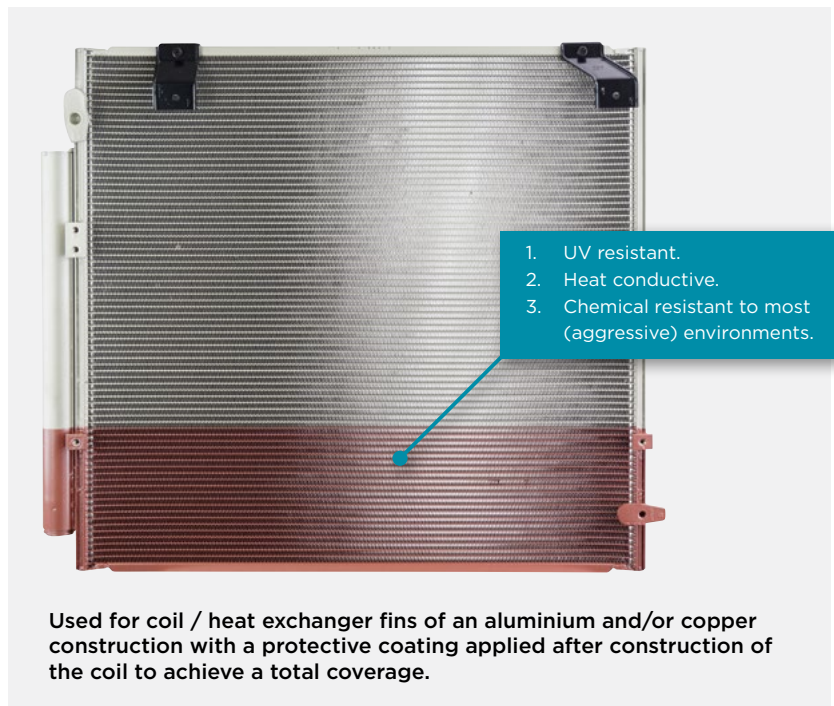
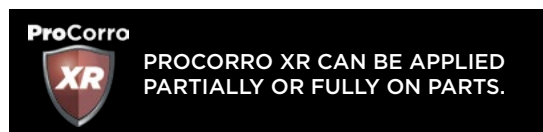
- | Less break downs
- | Increases lifespan of parts by up to 4x
- | Decrease parts replacement
- | Save labour time

**Experience Better.**



### What is ProCorro XR?

Highgate Air's ProCorro XR is a specifically developed, tried and tested corrosion protection system. A polyurethane coating, impregnated with metallic pigment to prevent loss of heat conductivity, is applied to A/C condensers and evaporators in order to increase the lifespan of the parts in highly corrosive environments. The lifespan of parts treated with ProCorro XR has been found to be more than double\* compared to parts without treatment.



### Who is it for?

ProCorro XR is most beneficial to customers who operate vehicles and machinery in highly corrosive environments, such as underground mines. If fleet uptime is a consideration, ProCorro XR will greatly decrease the need for A/C repair due to corrosion with the lifespan of treated parts found to increase by 2-4 times\*.

*\*On average. The individual result achieved depends on various environmental and usage factors. In the results reported by customers, the lowest increase in lifespan was x2, and the highest increase was x4.*



### What this means for you

1. Less breakdowns, meaning less downtime.
2. Anti-corrosive coatings on the chassis and underbody stay intact for longer.
3. Less mis-diagnosis, resulting in less wasted labour and parts.

## Application

Due to the specialized nature of the corrosion protection system, it is essential that only a qualified applicator is contracted for this application. Wiring and sensitive electrical components are protected during the cleaning and coating process. The most critical areas which have to be coated are the heat exchangers surfaces (finned coils). Protection against corrosion are achieved by means of a high pressure spray technique that ensures full penetration but prevents bridging (thus preventing capacity loss).

Copper elbows (returns), headers and brazing parts are pre-treated with special Polyurethane primer to ensure maximal adhesion and protection to these areas.

## Quality Control

The adhesion level is done to meet Cross hatch test level 0 (European) and 5B (USA) according to ASTM 3359-83 53151 method B-A and to a thickness level of 1 mil (25 µm) plus or minus 20%.

## Corrosion resistance

- Salt concentration 5 % NaCl
- pH 6,5 - 7,2
- Temperature 37°C (98,5°F)
- Salt concentration 5 % NaCl
- pH 3,2 by Acetic Acid (HAc)
- Temperature 37°C (98,5°F)

## Composition/ information on ingredients

**Chemical characterization:** Mixtures

**Description:** Resin mixture

DANGEROUS COMPONENTS:		
<ul style="list-style-type: none"> <li>• EC number: 918-668-5</li> <li>• Index number: 649-356-00-4</li> <li>• Reg.nr.: 01-2119455851 -35</li> </ul>	Solvent naphtha (petroleum), light arom.	20-<25%
<ul style="list-style-type: none"> <li>• GAS: 108-65-6</li> <li>• EINECS: 203-603-9</li> <li>• Index number: 607-195-00-7</li> <li>• Reg.nr. : 01 -2119475791-29</li> </ul>	2-methoxy- 1-methylethy/ acetate	15-<20%
<ul style="list-style-type: none"> <li>• GAS: 9016-87-9</li> </ul>	diphenylmethanediisocyanate, isomeres and homologues	7-<10%
<ul style="list-style-type: none"> <li>• GAS: 37273-56-6</li> </ul>	Aromatisch polyisocyanaat-prepolymeer	5-<7%
<ul style="list-style-type: none"> <li>• GAS: 64742-82-1</li> <li>• EINECS: 265-185-4</li> <li>• Index number: 649-330-00-2</li> </ul>	Naphtha (petroleum), hydrodesulfurized heavy	5-<7%
<ul style="list-style-type: none"> <li>• GAS: 4083-64-1</li> <li>• EINECS: 223-810-8</li> <li>• Index number: 615-012-00-7</li> </ul>	4-isocyanatosulphonyltoluene	1-<2.5%
<ul style="list-style-type: none"> <li>• GAS: 101-68-8</li> <li>• EINECS: 202-966-0</li> <li>• Index number: 615-005-00-9</li> <li>• Reg.nr. : 01 -2119457014-47</li> </ul>	4,4'-methylenediphenyl di isocyanate	1-<2.5%
<ul style="list-style-type: none"> <li>• GAS: 5873-54-1</li> <li>• EINECS: 227-534-9</li> <li>• Index number: 615-005-00-9</li> <li>• Reg.nr.: 01-2119480143-45</li> </ul>	o-(p-isocyanatobenzyl)phenyl isocyanate	1-<2.5%

# HOW TO TRIPLE\* THE LIFESPAN OF A/C PARTS IN HIGHLY CORROSIVE ENVIRONMENTS

## 1. DESCRIPTION

Fleet operators working in harsh and highly corrosive environments, such as underground mines, often encounter a similar problem: vehicle air conditioning parts essential to performing cooling services, such as condensers or evaporators, fail prematurely, resulting in frequent and costly replacements. Unplanned maintenance further increases cost to fleet owners and makes mobile maintenance superintendent's, supervisor's, and leading hand's KPIs around fleet uptime challenging to achieve.

## 2. HIGHGATE AIR'S SOLUTION

Highgate Air were able to supply a solution in the way of an anti-corrosive coating, ProCorro XR, to increase the lifespan of A/C condensers and evaporators. The polyurethane coating impregnated with metallic pigment acts to prevent loss of heat conductivity and offers the extra protection needed in harsh environments. Coating can be applied to cover parts fully or partially. ProCorro XR was developed in conjunction with one of our customers and has since been rolled out very successfully to several more.



“ I was looking for a solution to help our U/G fleet of Toyota Landcruisers to extend the life of the condensers and came across Highgate Air. We trialled their condensers with their special coating and literally doubled the life of the condensers. (...) ”

## Stop corrosion

Leading Hand  
GFM Light Vehicles, Glencore.



# 3. RESULTS

Customers report a 2-4 times\* increase in lifespan of coated parts, depending on their specific circumstances, making it a very worthwhile undertaking in the pledge to minimize maintenance costs and increase vehicle uptime.



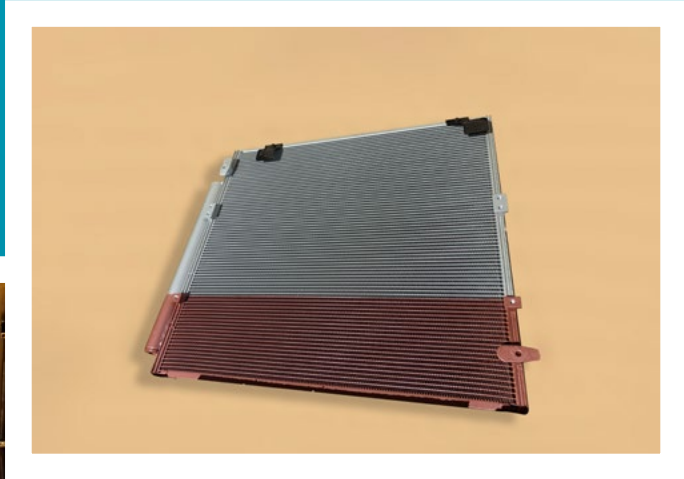
SAVINGS



EFFICIENCY



QUALITY



ProCorro



PROCORRO XR CAN BE APPLIED PARTIALLY OR FULLY ON PARTS



## Efficiency



Ever since we have been coating the condensers and evaporators with the Highgate's anti-corrosive coating, we are extending the life by more than double. (...) This has meant it keeps our utes running, and reduces downtime and frustration, as we simply cannot run the vehicles without A/C.



Jason, Reliability Specialist, Olympic Dam Mine Maintenance Mobile Equipment



**\*On average.** The individual result achieved depends on various environmental and usage factors. In the results reported by customers, the lowest increase in lifespan was x2, and the highest increase was x4.



## From the CEO - Brad Joyce



At Highgate Air, we understand your need for reliable service, speed of response and delivery, and being equipped with the right parts and tools to get your job done.

We have been living and breathing air conditioning for over 50 years, on the tools in our workshop and as distributor.

It is our commitment to not only supply you with innovative products to the highest quality standards but partner with you to solve your problems, provide technical advice and training.

Our passionate team is operating based on the company values of Excellence, Loyalty, Honesty, Humility and Positivity and you will see these values shine through in every interaction with our people, committed to ensure Highgate Air customers Experience Better.



### Focusing on A/C for over 50 years

From a team of two technicians in 1969 to a 4,000sqm, purpose-built warehouse distribution centre today, our commitment to our clients has made us one of Australia's most trusted suppliers in the air conditioning industry.

## You've got a tough job. We're here to make it easier.

Running a fleet of any type of vehicle isn't an easy task. Maintenance and unplanned downtime are costly undertakings. We are specialised in supporting fleet managers in reducing downtime and making regular maintenance as efficient as possible.



**Our “Experience Better” promise to you is built on seven strong pillars that make us stand out.**



**Nationwide next day delivery**

Speed of delivery is our best kept secret. We offer 5 daily delivery runs across metro Perth and Adelaide and overnight delivery of items in stock to most places in the country.



**Large range & in stock**

We’ve been going against the trend of Covid-19 related shortages, maintaining a fill rate of over 97% though. We still stock what we sell.



**Leader in vehicle listings**

We’re setting the industry benchmark when it comes to vehicle listings for Mining, Agriculture, Truck and Auto.



**Technical support**

We’re supporting customers in fault diagnostics, maintenance schedules and on-the-job training.



**Right part, first time**

Consider this a given when dealing with Highgate Air.



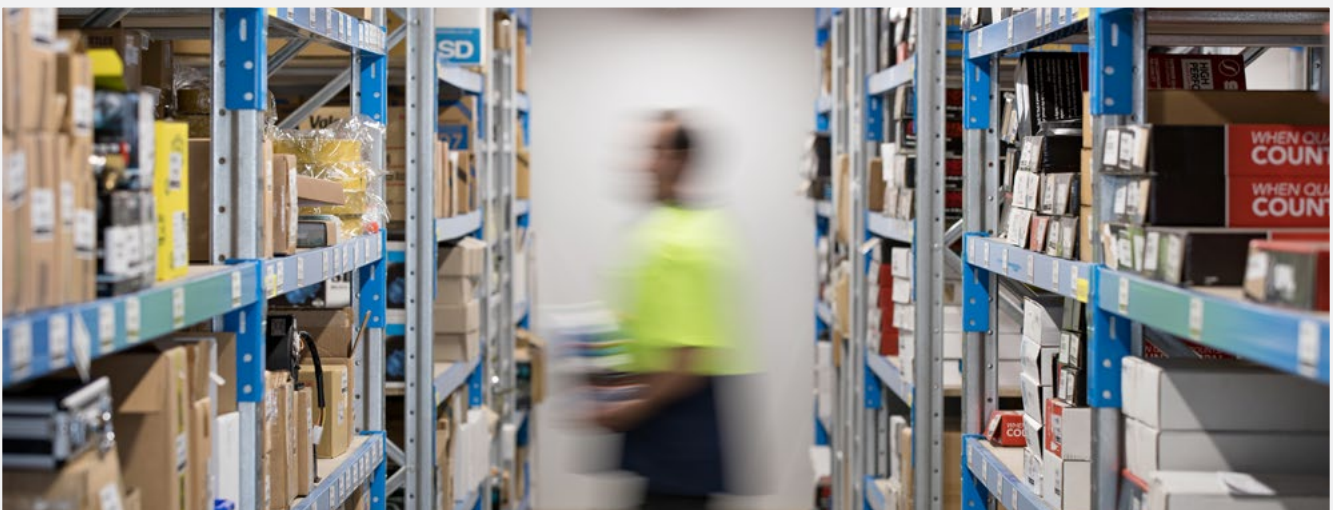
**Industry specialist**

Vehicle air conditioning is in our DNA with over 50 years of industry experience.



**Fast global sourcing on hard-to-find parts**

We maintain excellent and progressive relationships with a diverse supplier network around the globe.





# KEEPING YOUR FLEET RUNNING HAS NEVER BEEN EASIER



Ordering the correct A/C parts and consumables, and knowing they will fit your machines, has now been reduced to a matter of seconds. And no longer any doubt whether they will be right. **Get the Right Part, the First time.** And save time and money in the process.

**Order with ease through My Fleet Manager**

## 1. ASSET

Type in your asset details or filter your preset asset list, and select a vehicle or machine.

## 2. SELECT PARTS

Select what you need from all linked parts and add straight to your cart.

## 3. CHECKOUT

Check out to complete your order.

### WE'LL DO ALL THE SET UP FOR YOU

We'll do the initial set-up of your assets for you. So all you need to do is log in and take advantage of the features. You can then create, add or duplicate assets at any time.

### GET ACCESS NOW & SAVE TIME

Book your introduction. We promise this will be the best 30-minute investment you will make this week.



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**We simplify aircon.**