
CORROCARE – Who are we?

We are a specialist provider of **advanced** corrosion protection solutions dedicated to extending the life and performance of outdoor air conditioning units of all sizes. With a focus on both coils and panels, we offer a range of tailored treatment systems using our high-performance coatings – AquaGuard, Rust-X, TopGuard & Ion Shield.

These products have been engineered & tested for maximum **durability**, chemical **resistance**, and weather **protection**, ensuring that air conditioning equipment remains resilient even in the harshest environments. By combining technical expertise with proven products, CORROCARE delivers reliable, long-lasting defence against corrosion for the HVAC industry.

Global yearly cost of corrosion is estimated at over R44 trillion, while South Africa is estimated to be over R130 billion with **HVAC being a significant contributor**. Studies show that HVAC systems are among the most vulnerable assets in coastal and industrial environments, with corrosion being a **leading cause of premature failure**.

In the HVAC industry, corrosion can **reduce the lifespan of outdoor units by up to 50%**, leading to frequent replacements, higher maintenance costs, and increased downtime. Corroded coil fins and panels can cause a **20–30% drop in energy efficiency**, driving up electricity bills and carbon emissions. In some coastal South African cities, up to **70% of commercial HVAC service calls are related to corrosion issues**.

What can CORROCARE do for YOU?

Improved Energy Efficiency

- Clean, uncorroded coils allow for efficient heat exchange.
- Direct result of improved energy efficiency, leading to significant savings on electricity bills over the unit's lifetime.

Extended lifespan

- A robust barrier against corrosive elements, combating rust and degradation of critical components.
- Reduced Wear and Tear, delaying the need for costly replacements

Reduced Maintenance & Repair Costs

- Protecting components from corrosion drastically reduces the likelihood of leaks, blockages, mechanical failures & breakdowns.
- Less frequent repairs - emergency service calls, parts replacement & labour

Enhanced Performance & Reliability

- A well-maintained, corrosion-protected unit performs optimally, providing consistent and reliable climate control.
- Significantly reduced probability of unexpected unit failures, which is crucial for environments where continuous operation is essential.

Maintained Aesthetic Appeal

- Keeps the outdoor unit looking newer and cleaner for longer, which is important for curb appeal, especially in commercial or residential settings

Investing in a CorroCare anti-corrosive treatment isn't just about preventing rust; it's about securing your investment and ensuring long-term peace of mind.

Product Offerings

AquaGuard

- Polyurethane Paint (4:1 thinners), Clear Coat
- Dry film thickness: 50-70 microns
- Airless spray
- The primary protective barrier on panels and coils. Its excellent adhesion, gloss retention, and resistance to chemicals, abrasion, and weather make it ideal for shielding metal surfaces from harsh environmental elements

Rust-X

- Modified Epoxy Paint (85:15 thinners), White/Buf/Grey
- Dry film thickness: 4-10 mils
- Airless spray
- A surface-tolerant primer applied to panels. It toughens metal, provides strong adhesion, and resists water, saltwater, and chemicals.



CORROSION TREATMENT SPECIALISTS

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TopGuard

- Based on a polyurethane resin, bonds well on rough surfaces and has anti-corrosive properties.
- Dry Film thickness: 50-70 microns
- TOPGUARD is used as a final sealant. It provides strong adhesion to metals, is elastic and durable, UV resistant, and protects against a wide range of chemicals. This topcoat ensures long-term durability and maintains the integrity of the underlying protective layers.

Ion Shield

- CorroCare Ion Shield is tested by an independent laboratory as effective in preventing corrosion for electronic applications including circuit boards for protection of exposed metals.
- It should be applied just to the point of runoff and over-application does not increase the effectiveness.
- It's non-corrosive formula is better than rust removers which are all acids

How They Work Together

- ❖ RUST-X is applied first as a primer (where needed) to fortify and prepare the metal surface on the panels only.
- ❖ AquaGuard is then layered to create a tough, weather-resistant shield across the panels and coil.
- ❖ TopGuard is used as a finishing coat, especially on coils, to lock in protection and enhance longevity.
- ❖ ION SHIELD is used on circuit boards, it stops corrosion and eliminates moisture, restoring them to full functionality.

Treatment Packages

Tier 1

Circuit & PC Board Protect

A single application of CorroCare Ion Shield on all electrical components

Tier 2

Panel Protect

CorroCare AquaGuard is applied to the inside and outside of the panels.

This excludes the coil but includes the cabinet and base plate of the condenser.

Tier 3

Coil Protect

CorroCare TopGuard in black is applied through the condenser coil from the inside and outside ensuring strong airflow and protection.

Tier 4

Panel & Coil Protect

AquaGuard is applied on the inside and outside of the panels and TopGuard is applied through the condenser coil from outside and in. The machine is fully coated on all surfaces to ensure longevity. This treatment is recommended for small to medium sized machines.

Tier 5

Panel & Coil with Rust-X Protection

A dual undercoat of CorroCare Rust-X to all panels, on the inside and outside of the cabinet. Rust-X is a modified epoxy paint that toughens metal and protects from corrosion. AquaGuard is applied over the Rust-X on all panel surfaces and TopGuard through the condenser coil.

CORROCARE Treatment Portfolio

- Split Units
- Multi Split VRV
- Close control
- Rooftop packages
- Chillers
- Specialised units
- Heat pumps
- Other HVAC units involved in heat exchange.



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FAQs

What is the TAT for a unit undergoing treatment?

Depending on the treatment type and unit size, TAT can vary from between 3-7 days.

Where would the treatment take place?

Our depot and head office are based in Springfield, Durban. This is where the units are treated. The logistics are dependant on the agreements between the CORROCARE and it's partners.

Are there any warranties that accompany the treatment?

Yes. Each treatment tier has its own warranty agreement which is available on our website. The unit needs to be registered online upon installation to activate the warranty.

Can old machines receive treatment?

Depending on the condition of the machine and severity of existing corrosion.