



COILGUARD[®]

ECOSHIELD[®]

FINSHIELD[®]

BODYGUARD[®]

What is Coilguard®?

Coilguard® (an aluminium impregnated polyurethane) is a high performance anti corrosion treatment that can be applied to all types of air-cooled heat exchangers, including rooftop units, air cooled liquid chillers and air handlers. Developed in conjunction with Dulux®, Coilguard® is proven to be a superior anti corrosion coating technology that offers the ultimate protection for condensers. It is equally beneficial to new and/ or already installed units.

Why use Coilguard®?

The design, installation and operation of quality HVAC units is crucial to achieving optimal indoor climates. It is common for these units to be installed where they are exposed to aggressive environments and unfavorable impacts of atmospheric influences and pollutants. Consequently, this builds destructive corrosion on the unit, decreasing its rated capacity and operating performance that results in increased energy consumption, operating costs and equipment downtime. Coilguard® corrosion protection is the best solution to reduce the real risk of an unexpected breakdown or failure, maintain efficient performance, prolong asset life and lower operating costs. Our dedicated technicians undertake scheduled inspections to monitor the performance of the coatings and advise you of options to minimise threats from corrosion.



Coilguard® is suitable for both commercial and residential use in any environment.

Pacesetter® Warranty Systems

All units treated through our Pacesetter® Warranty Systems are covered by our normal product and workmanship warranty. For additional peace of mind, it is recommended that a Maintenance Warranty Plan (MWP) be entered into that is customized for your equipment and environment and achieve a warranty of up to 10 years*. Our Pacesetter® Warranty Systems can be customised to suit your environment and budget, to ensure the unit performs in its environment, maximising its lifespan.



*Warranty subject to approval from paint manufacturer.



PROTECTION PROCESS

The key steps in the process of applying Coilguard® to new or installed units include:

✓ Inspecting and cleaning the units

The condenser is thoroughly inspected by a certified applicator. A vacuum system is used to remove and dry-off pollution, the unit is then cleaned using biodegradable cleaning agents.

✓ Alignment of the fins

The fins are aligned using special equipment to restore back to a visual & mechanical standard where possible.

✓ De-oxidation treatment

Chemical De-scaling of the condenser is carried out if the unit is corrosive, removing the oxide-skin pollution.

✓ De-oxidation cleaning

The unit is rinsed with the use of high-pressure equipment, preparing it for treatment.

✓ Conversion Layer - Coil Prime

Using specialised spraying equipment and our unique proprietary product, the units are applied with a conversion layer.

✓ Drying

The conversion layer must be completely dry before the top layer can be applied.

✓ Top layer - Coilguard®

Application of ultra durable coatings to protect the coil from the corrosive effects of environmental and atmospheric conditions.

✓ Maintenance & Extended Warranty Plans

Tailored to meet your service life needs from 12 to 60 months.

✓ Energy Efficiency

A unit treated by Colorworks can reduce energy consumption by up to 20% and ensure the units coil lifespan will be doubled, creating considerable energy efficiencies.



Typical Coils Untreated

Demonstration of the effects that our environment has on coils.



Specialist refurbishment

Treated with Coilguard®

Technical Specifications

Coating Type:	Aluminium Impregnated Polyurethane
Coating Colour:	Silver
Pre-treatment:	Conversion Layer / Chromate
Substrates:	Aluminium and Copper
Layer Thickness:	25-35 µm
UV Resistance:	Excellent
Dry Temperature Range:	0 °C to 150 °C, 32 °F to 302 °F
Thermal Resistance:	0 to 3% depending on fin details
Pressure Drop:	0 to 5% depending on fin details
Neutral-salt Spray:	3600+ hrs ASTM B117
Acidic-salt Spray:	3600+ hrs ASTM B287 / AAMA 2603-98

Corrosion Protection to Suit Any Environment

COILGUARD®

For Superior Protection & Heavy Duty Performance



Coilguard® is the HVAC industry's leading anti corrosion protection system based on proven polyurethane technologies that offer the highest level of performance against all types of destructive & corrosive influences. Applied in a specially developed process that coats critical surfaces of the coil, it ensures these major components achieve the optimal performance required by all HVAC systems. Maintenance of a Coilguard® coated unit extends operating life and maintains operating efficiencies thereby reducing all costs and wasted energy/ outputs. Ask about our 10 Year Optional Maintenance Warranty Plans (MWP).

FINSHIELD®

Industrial Grade Protection & Medium Duty Performance



A new formulation and application process based on the high performance properties of its big brother Coilguard®. This new intermediate service offers low cost protection in low duty environments whilst ensuring durable performance against industrial and commercial corrosive influences.

ECOSHIELD®

Light Commercial/ Industrial Grade Protection



An exciting breakthrough in corrosion protection with the introduction of our water based Ecoshield®. This utilises environmentally safe technologies to offer a low cost but highly effective treatment option that provides significant protection against light to medium grade corrosive influences.

BODYGUARD®

Superior Protection & Heavy Duty Performance of Aluminum and Steel Substrates



Bodyguard® is an industrial grade paint protective system. It utilises our HP500 FluoroKote® product which is based on fluoropolymer chemistry, which is regarded as the most durable of coatings. It is often specified due to its high performance characteristics that include an ability to shed and repel aggressive contaminants whilst also withstanding changes to the colour and gloss levels that is impacted on by long term exposure to external environments. Bodyguard® is used on Aluminium and Steel substrates including chiller frames, ducting support and other HVAC components.

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