HVAC & Refrigeration
Heat Exchanger
Direct To Metal Coating

Long Term Corrosion Protection

Are you sure that your air conditioner are well protected from the harsh environment?

Have your ACMV coil started to show sign of corrosion?
The Problem
Heat exchangers are susceptible to harsh environments, over time, contaminants can corrode the heat exchangers. This causes the heat exchanger performance to degrade, leading to capacity loss, high head pressure and, eventually, compressor failure.

You can protect your coil easily with Direct To Metal Corrosion Coating

The Solution
ECRA-DTM HIGH GLOSS HYBRID ACRYLIC is a direct to metal high gloss water based acrylic copolymer specifically designed for use in industrial and marine HVAC and refrigeration systems to stop corrosion from salt and industrial pollution and outdoor environmental factors.

The coating is UV resistant, anti-corrosion resistance, excellent salt spray resistance, highly resistant to various aggressive environments and adheres tightly to all metal substrates. The coating incorporates with Silver Ion for antimicrobial properties and SUPER Hydrophobic properties repels water to reduce dirt and accelerate selfcleaning capacity, ease of maintenance and enhanced coil performance. It is simple, quick and cost effective application that does not affect heat exchanger or airflow, extends the life span and will be fully repairable and maintainable on site.

The coating is classified as Non-Flammable and Non-Dangerous Goods.

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The Features
- Water Based
- Non Flammable
- Ozone Safe
- Environmentally Friendly
- Silver Ion for antimicrobial properties

The Benefit
- Long Term Corrosion Protection
- Improved Efficiency
- Improved indoor air quality
- Reduce Electricity Usage
- Reduce Maintenance Repairs
- Super hydrophobic surface repels water to reduce dirt

Why do you need it?
Are your heat exchangers starting to show sign of corrosion, mouldy and accumulated with dust? What causes all these to happen?

1. Harsh Condition: The environment that these air conditioners are in can be aggressive and present harsh elements that lead to, such as chloride and sulphur compounds in coastal areas, sulphur oxides and nitrogen oxides in industrial polluted areas, as well as airborne particles, cutting oils and solvents on factory floors.

2. Corrosion: Heat Exchangers are often constructed with copper coils and aluminium fins that are more likely to corrode causing heat exchanger to deteriorate more quickly.

3. Increase in bills: Build up of dust and contamination reduces heat exchange efficiency. Therefore it will consume more energy to maintain the coolness in your building.

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**Direction of use**

Available in Dip Coating or Spray Coating

**Spray Coating**
- Apply to clean or new Coil
- Spray evenly onto HVAC and Refrigeration Coils
- Allow the coil to dry

**Dip Coating**
- Apply to clean or new Coil
- Dip the coil fully into a tank containing the coating
- Drain out the remaining coating on the coil
- Allow the coil to dry

**ASTM Certification**
- ASTM B117 10,000 Hrs Salt Spray Testing
- ASTM D4798 Super Hydrophobic (Weathering, Xenon Arc Test Method)
- ASTM G21 Resistance to Fungi
- ASTM G22 Resistance to Bacteria
- ASTM G85-A1 3,000 Hrs Prohesion Salt Spray Testing
- ASTM G87 50 Cycle Moist SO$_2$ Testing
- ASTM D522 Mandrel Bend Test
- ASTM D5894 1,000 Hrs Cyclic Corrosion/UV Exposure Test

**The User**

If you use air conditioning or refrigeration units, you will need **Direct to Metal Corrosion Coating**. Our clients include

- Apartment Buildings
- Commercial / Industrial buildings
- Cruise ships
- Health clubs
- Hospitals
- Hotels and Resorts
- Nursing homes
- Office buildings
- Schools and universities
- Supermarkets

**Direct To Metal Coating work best on**

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