

STANDARD COIL PROTECTION

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION	<p>Our standard finish is a solvent based clear gloss acrylic finish. It is specifically designed for application to ferrous and non-ferrous metals.</p> <p>Standard finish is a clear finish that remains flexible throughout its life.</p>																				
APPLICATIONS	<p>Standard finish is applied to all AIRPAK manufactured coils. It prolongs the life of heat exchange coils in mild working environments. Ideal for office environments and high humidity environments. Can be used in moderate temperate oceanic environments.</p>																				
TYPICAL INSTALLATIONS	<p>Offices and comfort cooling and/or heating applications. Moderate Oceanic Environments General outdoor installation, rooftop installations. Other mild to moderate commercial and industrial applications.</p>																				
PRODUCT PERFORMANCE	<p>Standard finish offers resistance and protection from corrosion and corrosive agents such as acid rain and saltwater. Poor resistance is offered against agents such as sulphuric & hydrochloric acids, acetic acid and nitric acid, acetone and other thinning agents and solvents.</p> <p>If a higher degree of protection is required, Blue Fin pre-coated fins with Standard finish should be specified. Where coils are subject to extremely harsh environments, the combination of Blue Fin plus Epoxy Cote or D-Coat is recommended. Refer to the appropriate technical data sheets for the alternative protection products.</p>																				
PRODUCT PROPERTIES	<table><tr><td>Colour:</td><td>Clear Gloss</td></tr><tr><td>Temperature range:</td><td>Up to 100°C</td></tr><tr><td>Chemical resistance:</td><td>Excellent to poor depending on concentration</td></tr><tr><td>Heat transfer:</td><td>Insignificant impairment at given thickness</td></tr><tr><td>Film build up:</td><td>8-11µ dry film thickness</td></tr><tr><td>Coil application:</td><td>Spray finish</td></tr><tr><td>Coating:</td><td>Coil coverage including all return bends, framework, and headers</td></tr><tr><td>Features:</td><td>Excellent coil protection Environmentally safe Non-Toxic Flexible Good chemical resistance</td></tr><tr><td>Maintenance:</td><td>Low water pressure cleaning methods Light soap based detergents</td></tr><tr><td>Reapplication:</td><td>Any damaged or repaired surfaced can be reapplied using brush or spray methods</td></tr></table>	Colour:	Clear Gloss	Temperature range:	Up to 100°C	Chemical resistance:	Excellent to poor depending on concentration	Heat transfer:	Insignificant impairment at given thickness	Film build up:	8-11µ dry film thickness	Coil application:	Spray finish	Coating:	Coil coverage including all return bends, framework, and headers	Features:	Excellent coil protection Environmentally safe Non-Toxic Flexible Good chemical resistance	Maintenance:	Low water pressure cleaning methods Light soap based detergents	Reapplication:	Any damaged or repaired surfaced can be reapplied using brush or spray methods
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ADDITIONAL INFORMATION	<p>Standard finish offers a prolonged heat exchange coil life span when coils are used in mild conditions and environments, therefore prolonging the overall life of the equipment and system.</p>																				



EPOXY COTE COIL PROTECTION

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION	<p>Epoxy Cote is a high performance two part epoxy based finish that is designed for application to aluminium, copper, and other non-ferrous metals. Epoxy Cote is a black tone that is baked onto each coil to provide the highest possible degree of protection. Epoxy Cote can resist abrasion and harsh weathering.</p>																				
APPLICATIONS	<p>Epoxy Cote is ideal for refrigeration heat exchange coils where they might be exposed to harshest conditions within coastal or industrial process environments that contain airborne contaminants that are corrosive to the materials of the coil.</p>																				
TYPICAL INSTALLATIONS	<p>Swimming Pool Heat Recovery Systems Chocolate and Food Factories where acids are present Harsh Coastal environments Food applications and food cabinets Other harsh commercial and industrial process environments</p>																				
PRODUCT PERFORMANCE	<p>Epoxy Cote offers outstanding resistance to many corrosive agents such as hydrochloric acid, sulphuric acid, ammonia, sodium hydroxide, lactic acid, oxalic acid, saltwater, tannic acid, and sodium chloride. Excellent resistance is offered against agents such as acetic acid, nitric acid, toluene, acetone, and other thinning agents and solvents.</p>																				
PRODUCT PROPERTIES	<table><tr><td>Colour:</td><td>Black</td></tr><tr><td>Temperature range:</td><td>Up to 130°C</td></tr><tr><td>Chemical resistance:</td><td>Excellent</td></tr><tr><td>Heat transfer:</td><td>Insignificant impairment at given thickness</td></tr><tr><td>Film build up:</td><td>9-12μ dry film thickness</td></tr><tr><td>Coil application:</td><td>Sprayed and baked to a hard film</td></tr><tr><td>Coating:</td><td>100% coil coverage including all return bends, framework, and headers</td></tr><tr><td>Features:</td><td>Total coil protection Environmentally safe Non-Toxic High chemical resistance</td></tr><tr><td>Maintenance:</td><td>Low water pressure cleaning methods Light soap based detergents</td></tr><tr><td>Reapplication:</td><td>Any damaged or repaired surfaced can be reapplied using brush or spray methods</td></tr></table>	Colour:	Black	Temperature range:	Up to 130°C	Chemical resistance:	Excellent	Heat transfer:	Insignificant impairment at given thickness	Film build up:	9-12 μ dry film thickness	Coil application:	Sprayed and baked to a hard film	Coating:	100% coil coverage including all return bends, framework, and headers	Features:	Total coil protection Environmentally safe Non-Toxic High chemical resistance	Maintenance:	Low water pressure cleaning methods Light soap based detergents	Reapplication:	Any damaged or repaired surfaced can be reapplied using brush or spray methods
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Reapplication:	Any damaged or repaired surfaced can be reapplied using brush or spray methods																				
ADDITIONAL INFORMATION	<p>Epoxy Cote offers the highest protection and prolonged heat exchange coil life span when coils are used in harsh environments. Therefore, prolonging the overall life of the equipment and system.</p>																				



BLUE FIN COIL PROTECTION

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Blue Fin is a high performance aluminium foil manufacturer's 2-pack epoxy gloss finish that is specifically designed for application to aluminium. Blue Fin appears as an anodised finish with a gloss blue tone that remains flexible.

The manufacturer applies Blue Fin to the raw aluminium fin stock. Therefore only the fins of the coil are coated. All other parts of the coil are natural finish.

APPLICATIONS

Blue Fin is ideal for refrigeration heat exchange coils where they might be exposed to harsh coastal conditions or mild hazardous industrial or commercial environments that contain airborne contaminants that are corrosive to the materials of the coil. In particular, environments that would be harsh to aluminium only.

TYPICAL INSTALLATIONS

Harsh Coastal environments
Mild commercial and industrial environments
Other harsh commercial and industrial process environments

PRODUCT PERFORMANCE

Blue Fin offers excellent resistance to common corrosive agents such as ammonia, sodium hydroxide, saltwater, and sodium chloride.

Blue Fin offers a degree of protection against agents such as toluene, acetone, and other thinning agents.

Blue Fin is bonded to the aluminium fin for life.

When combined with Epoxy Cote, total coil protection is obtained to the highest degree. Maximum chemical resistance is achieved when both Epoxy Cote and Blue Fin are combined.

PRODUCT PROPERTIES

Colour:	Clear Gloss with Blue Tone
Temperature range:	Up to 200°C
Chemical resistance:	Excellent to poor depending on concentration
Heat transfer:	Insignificant impairment at given thickness
Film build up:	N/A
Coil application:	Manufacturer application
Coating:	100% fin coverage only
Features:	Environmentally safe Non-Toxic Flexible High chemical resistance
Maintenance:	Low water pressure cleaning methods Light soap based detergents
Reapplication:	Cannot be re-applied

ADDITIONAL INFORMATION

Blue Fin offers prolonged heat exchange coil life span when coils are used in harsh environments that are particularly corrosive to aluminium, therefore prolonging the overall life of the equipment and system.



BLUE FIN & BAKED EPOXY COTE COMBINATION COIL CORROSION PROTECTION

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Blue Fin is a high performance aluminium foil manufacturer's 2-pack epoxy gloss finish that is specifically designed for application to aluminium.

Blue Fin appears as an anodised finish with a gloss blue tone that remains flexible.

The manufacturer applies Blue Fin to the raw aluminium fin stock. Therefore only the fins of the coil are coated. All other parts of the coil are natural finish.

Epoxy Cote is then applied to the entire coil and baked to form a very tough resilient black finish.

Coils have a double layer of protection, which does not allow any corrosive attack on the aluminium fin material.

APPLICATIONS

Blue Fin & Epoxy Cote can cope with the most extreme of chemical and environmental conditions.

Provides a higher degree of protection from corrosive agents than Copper finned coils.

Petrochemical plant installation, Swimming Pools, Corrosive chemical process plants.

TYPICAL INSTALLATIONS

Harsh commercial and industrial environments
Petrochemical plant and equipment.

PRODUCT PERFORMANCE

Blue Fin & Epoxy Cote offers the highest protection from corrosive agents such as Ammonia, Sodium Hydroxide, Saltwater, and Sodium Chloride.

Blue Fin & Epoxy Cote offers a very high degree of protection against agents such as Toluene, Acetone, and other thinning agents.

Blue Fin is bonded to the aluminium fin for life. Epoxy Cote is a double layer of protection that is baked permanently onto the coil.

PRODUCT PROPERTIES

Colour:	Black Gloss
Temperature range:	Up to 300°C
Chemical resistance:	Excellent
Heat transfer:	Insignificant impairment
Film build up:	9-12 μ dry film thickness
Coil application:	Manufacturer application
Coating:	100% fin & coil coverage
Features:	Environmentally safe Non-toxic Rigid Very high chemical resistance
Maintenance:	Low water pressure cleaning methods Light soap based detergents
Reapplication:	Re-application by spraying methods

ADDITIONAL INFORMATION

Blue Fin offers prolonged heat exchange coil life span when coils are used in harsh environments that are particularly corrosive to aluminium. Therefore, prolonging the overall life of the equipment and system.



D-COAT COIL CORROSION PROTECTION

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

D-Coat is a high performance coating applied to the entire coil and baked to form a very tough resilient finish.

Available in three types:

- D-Coat Standard (*light blue colour*)
- D-Coat UV with UV resistance additive for external applications (*light grey colour*)
- D-Coat Plus with anti-microbial additive for healthcare facilities.

D-Coat has coil protection certification as follows:

- ASTM B117 – >10,000hrs Modified Salt Spray Test
- ASTM G85 – 2000hrs Modified Salt Spray Test
- ASTM D522 – Flexibility Test
- ASTM G21 – Resistance to Fungi
- ASTM G22 – Resistance to Bacteria
- ASTM G87 – Moist SO Test
- MIL-STD-810 – Sand & Dust Test

APPLICATIONS

D-Coat offers protection to a majority of aggressive environments, with the exception of strong alkalis and oxidising chemicals.

Petrochemical plant installation, Swimming Pools, Corrosive chemical process plants.

TYPICAL INSTALLATIONS

Harsh commercial and industrial environments
Petrochemical plant and equipment.

PRODUCT PERFORMANCE

D-Coat offers the highest level of protection from corrosive agents such as Hydrochloric Acid, Sulphuric Acid, Phosphoric Acid, Acetic Acid, Sodium Hydroxide, Trichloroethylene, as well as Saltwater.

D-Coat offers a very high degree of protection against agents such as Toluene, Acetone, and other thinning agents.

PRODUCT PROPERTIES

Colour:	Light Blue (D-Coat) or Grey (D-Coat UV)
Temperature range:	Up to 120°C
Chemical resistance:	Excellent
Heat transfer:	Insignificant impairment
Film build up:	6-20µ dry film thickness
Coil application:	Manufacturer application
Coating:	100% fin, tube, and casing coverage
Features:	Environmentally safe with US EPA approval Non-toxic with US FDA approval Rigid Very high chemical resistance
Maintenance:	Low water pressure cleaning methods Light soap based detergents
Reapplication:	Re-application by spraying methods

ADDITIONAL INFORMATION

D-Coat offers protection against the harshest environments, therefore prolonging the overall life of the equipment and system.