Coating Options

Epoxy Electrocoat

While all-aluminum Microchannel coils are not subject to the same galvanic corrosion issues as traditional copper/aluminum coils, there are situations or installations that may require the highest level of protection with Epoxy Electrocoat.

Recommended use of Epoxy Electrocoat

- Industrial Pollution & Sulfurs
- Petrochemical Installation
- Adiabatic assisted Systems
- Sea Shore Installations

Specifications:

Material:	Epoxy Electrocoat, PPG Powercron series
Thickness:	0.001-inch, nominal
Appearance:	Black, semi-gloss
Process:	Dip bath with Electrodes, Oven Cured

Chemical Resistance Guide:

Epoxy Electrocoat is resistant to the following at 70°F:

Acetates (ALL)	Diethanolamine	Lactose	Propyl Alcohol
Acetic Acid	Distilled Water	Lauryl Acid	Propylene Glycol
Alcohols	Esters	Magnesium	Salicylic Acid
Amines (ALL)	Ethyl Acetate	Maleic Acid	Salt Water
Ammonia	Ethyl Alcohol	Menthol	Sodium Bisulfite
Ammonium Hydroxide	Ethyl Ether	Methanol	Sodium Chloride
Amino Acids	Fatty Acid	Methyl Ethyl Ketone	Sodium Hypochlorite 5%
Benzene	Fluorine Gas	Methyl Isobutyl Ketone	Sodium Hydroxide<10%
Borax	Formaldehyde 27%	Mineral Oil	Sodium Sulfate
Boric Acid	Fructose	Motor Oil	Stearic Acid
Butyl Alcohol	Gasoline	Mustard Gas	Sucrose
Butyl Cellosolve	Glucose	Naphthol	Sulfuric Acid 25-28%
Butyric Acid	Glycol	Nitrates	Sulfates (ALL)
Calcium Chloride	Glycol Ether	Nitrides	Sulfides (ALL)
Calcium Hypochlorite	Hydraulic / Brake Fluid	Oleic Acid	Sulfites (ALL)
Carbolic Acid	Hydrazine	Oxalic Acid	Starch
Carbonates	Hydrochloric Acid<10%	Oxygen	Tannic Acids
Carbon Dioxide	Hydrogen Peroxide 5%	Ozone	Toluene
Carbon Monoxide	Hydrogen Sulfide	Perchloric Acid	Transmission Fluid
Cetyl Alcohol	Hydroxylamine	Phenol 85%	Triethanolamine
Chlorides (ALL)	Iodine	Phosgene	Urea
Chlorine Gas	Isobutyl Alcohol	Phenolphthalein	Vinegar
Citric Acid	Isopropyl Alcohol	Phosphoric Acid	Water
Creosol	Kerosene	Potassium Chloride	Windshield Solvent
Diesel Fuel	Lactic Acid	Potassium Hydroxide	Xylene

The following substances are **not recommended** for use with Epoxy Electrocoat:

Chromic Acid	Hydrofluoric Acid	Nitric Acid	Sodium Hydroxide>10%

NOTES:

1) Epoxy Electrocoat is not intended for liquid immersion applications.
2) Elevated temperatures can have an adverse effect on the coating.
3) This guide is provided for **GENERAL REFERENCE ONLY** and is not a guarantee of performance in a specific situation.
4) Effect on heat transfer rate is typically 1% to 2% and up to 10% on airside PD.