

# Coil Coatings

Increase the life of your coils by reducing corrosion with one of our available coatings  
Available for all unit sizes

## Features and Benefits

- Helps increase the life of the coils by keeping fragile aluminum fins protected from corrosive agents in severe environments
- Coatings applied so as to not significantly degrade heat transfer
- Several options available to meet the needs of individual applications

## Specialized coatings for individual applications

Evaporator and condenser coils are made of aluminum, which is somewhat corrosion resistant even without some type of coating. However, the harsh conditions under which Specific Systems units are placed may require an additional level of protection. In order to meet these needs, Specific Systems makes available numerous coil coating options, each with unique and energy saving traits.

### Technicoat

Technicoat is an air-dried resin-based thermoplastic on top of a baked phenolic coating designed specifically for use in salt-water environments. TechniCoat has been and is currently being successfully used in water treatment plants, paper mills, food processing plants, oil & gas related plants, off-shore drilling rigs, hatcheries, hospitals, laboratories & research facilities, and hotels. Technicoat requires minimal maintenance, with only a recommended quarterly washdown with a fan-nozzled pressurewasher

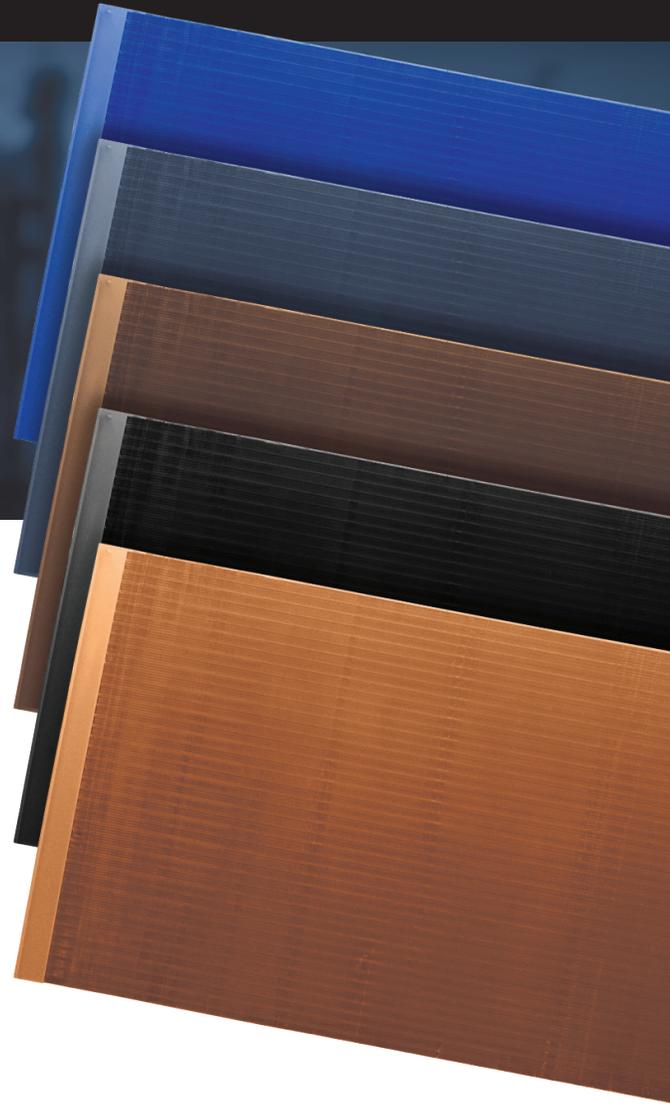
and very mild detergent. Technicoat averages 2–3 mils thick, including the top coat and received excellent ratings with the ASME B117 salt fog test, holding up to an additional 1500 hours of testing.

### Heresite

Heresite is a baked phenolic coating, generally dark brown in color, that is extremely flexible for a coating of this type. Heresite is resistant to many chemicals. It is the one of the most widely-used coatings worldwide, is very safe, and is dip-coated. Because of this ease of application, coating is uniform on the coil with a thickness of 4–6 mils.

### E-Coat

E-Coat (or electrocoating), as applied by Electrofin, is an environmentally friendly wet-paint process used on many products, including as a primer on many new vehicles. E-coat resists chipping and will extend the life of coils,



# Corrosion Resistant Coil Coatings

- Great for all applications
- Does not significantly reduce heat transfer
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E-Coat is also the thinnest coating, with applications computer-controlled to between 0.8 and 1.2 mils. Using a proprietary complete immersion process, Electrofin ensures complete coverage without any fin-bridging (up to 30 fpi/16 rows).

## Thermoguard

Thermoguard Fin Guard Blue epoxy uses a heat-conductive spray coating technique produced to achieve long-lasting corrosion protection. Thermoguard has passed the 80-cycle Kesternich sulfuric environment, Industrial ASTM G85, and Marine ASTM B117 tests. Because its smooth

surface resists adhesion from dust and dirt, Thermoguard allows energy consumption to remain at nominal input levels with minimal routine maintenance, and can be applied as thin as 1.2 mils.

## Esgard

Esgard 910 KotesAll wax/alkyd is the base coating applied by Specific Systems if a coating is requested. For general purpose use, Esgard 910 extends the life of coils, and is the choice if the environment is not super-corrosive and regular maintenance on the coils can be maintained.

## Coatings offer resistance to many types of corrosive agents:

Acetates – All	Carbonates – All	Glycols – All	Phenol
Acetic Acid	Carbonic Acid	Hydrocarbons – All	Phosphoric Acid
Acetone	Chlorides – All	Hydrochloric – Acid	Picric Acid
Acetylene	Chlorinated Solvents	Hydrogen	Propane
Acrylonitrile	Chlorine – Less Than 100 ppm	Iodides – All	Salicylic Acid
Alcohols – All	Chloroform	Ketones – All	Silicic Acid
Aldehydes – All	Chromic Acid	Lacquers	Steam Vapor
Alum	Citric Acid	Lactic Acid	Stearic Acid
Amines – All	Coke Oven Gas	Maleic Acid	Sulfate Liquors
Ammonia	Esters–All	Malic Acid	Sulfonic Acid
Ammonium Hydroxide	Ethers – All	Methanol	Sulfur Dioxide
Ammonium Nitrate	Ethylene Oxide	Methylene Chloride	Sulfuric Acid
Aniline	Fatty Acids	Napthalene	Sulfurous Acid
Benzoic Acid	Fluosilicic	Nitrates – All	Surfactants
Benzol	Formaldehyde	Nitric Acid (Dilute)	Tannic Acid
Boric Acid	Formic Acid	Nitrides – All	Tetraethyl Lead
Brine	Freon	Nitrobenzene	Toluene
Butane	Fuels – All	Nitrogen Fertilizers	Trisodium Phosphate
Carbolic Acid	Gases – Inert	Oils – Minerals / Vegetable – All	Urea
Carbon Dioxide	Gases – Manufactured	Oxalic Acid	Water
Carbon Monoxide	Gases – Natural	Oxygen	Xylene
Carbon Tetrachloride	Glycerine	Perchloric Acid (Dilute)	