

COIL COATING OPTIONS

PRODUCT APPLICATION

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.

PRODUCT DESCRIPTION

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.

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.

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, 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).

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.



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