



Bronz-Glow®
Protective Coatings

Engineering Specification Guideline

Condensing Units, Rooftop Packages, And Air Cooled Chillers.

Beach Front to 5 Miles

Dip Coat Condenser Coil(s)

Dip Coat Evaporator Coil(s)

Coat Exterior Cabinet

Coat Interior Cabinet

6 Miles to 10 Miles

Dip Coat Condenser Coil(s)

Dip Coat Evaporator Coil(s)

Coat Exposed Galvanized in Condenser Section.

11 to 50 Miles

Dip or Spray Coat Condenser Coil(s)

Coat Exposed Galvanized in Condenser Section.

Dip Coating Specification

Coil Protection: Condenser and/or evaporator coils shall be provided with a factory-applied dip-coating process for corrosion protection. Coil coating material and process applied to coils shall have passed a minimum of 6,000 hour salt spray test in accordance with ASTM Standard B117.85. Coating shall be effective in pH range of 1-14. Coil coating material shall consist of complex chain linked polyelastomer material with properties including 4,000 psi tensile strength and 250% flexibility. Coil(s) shall be prepared through applicators procedural cleaning steps allowing for drying prior to the coating process. A .5-1.0 mil-thick acrylic polymer resin primer shall be applied by dip-coating in three steps of 0.5 mil thickness each with a one hour cure between coats. Coating shall be built up on fin edges with a final spray-coating process. An anti-microbial agent shall be available for the coating of evaporator coils. ***Coating shall be applied by an approved and verifiable Energy Star Service Provider.***

Acceptable Products; *Husky Coil Coat Dip Application*



See spray specification and cabinet coating on next page.

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Spray Coating Specification

Coil Protection: Condenser coils and or evaporator coils shall be coated using synthetic chain linked polyelastomer coating by **spray application** for corrosion protection. Coil coating material and process shall have passed a minimum of 2,000 hour salt spray test in accordance with ASTM Standard B117.85. Coil film coating shall be effective in pH range of 1-14. Product shall have 4,000 PSI tensile strength and 250% flexibility. Coating shall have a 10 year Florida UV inhibitor added. Coating should be repairable and touch-up material available in aerosol form from Bronz-Glow. Field coating is unacceptable unless approved in writing by this Engineering Firm. No substitutes allowed.

Coating shall be applied by an approved and verifiable Energy Star Service Provider.

Acceptable Products; Husky Coil Coat Spray Application



Cabinet Coating Requirements:

Insulated and Un-insulated Interior or Exterior Surfaces: All interior surfaces shall be provided with a factory-applied spray-coating process for corrosion protection and to reduce insulation flaking. Coating material and process shall have a 2,000 hour salt spray test in accordance with ASTM Standard B117.85. Coating material shall consist of a synthetic resin material with properties including 4,000 psi tensile strength and 400% flexibility. Coating shall be effective in pH range of 1-14. The protective coating shall be applied by spray application in three coats for a final 3.0-6.0 mil thickness when dry. An anti-microbial shall be available for the coating of interior surfaces exposed to ventilation air, return air, or supply air stream.

Acceptable Products: *SPC for metal and Insul-Coat for insulation*

For locations with H2S Problems:

Copper Tubing: All copper tubing in the system shall be coated with either Husky Coil Coat or SPC for corrosion protection. No exceptions, no alternatives.

Bronz-Glow Technologies, Inc. is not a sole source provider of Bronz-Glow's coating services or the application of Husky Coil Coat, a proprietary coating product. Bronz-Glow has initiated a growing network of "Licensed and Certified Applicators" of our product for price diversity in the market place. These Bronz-Glow licensed and Certified Applicators are located around the U.S. and in International markets.