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The Electrophoretic Coating (e-Coating) Process Stages

The e-Coating process is typically divided into 5 distinct work stations:

1. Pretreatment Cleaning Tanks (Two Separate Baths)
2. Rinse Tank
3. e-Coating Tank Bath (Immersion into One Bath)
4. Post Tank Rinses (Immersion into Two Baths)
5. Oven Bake (20 minutes at @ 360° F)

CoreKote 2000™ is a cathodic e-Coating process. During the Pretreatment bath stages, the heat exchanger is chemically prepared to ensure fully clean and electrically-receptive surfaces.

During the e-Coating Tank Bath stage, the heat exchanger is negatively charged while the coating bath has positively charged paint particles. The negatively charged heat exchanger attracts the positively charged paint particles.

Negatively charging the heat exchanger significantly reduces iron entering the cured paint film, further enhancing its high performance and excellent corrosion resistance.

The Post Tank Rinses stage removes excess surface treatment materials from the e-Coated heat exchanger. This stage is designed to maintain clean, clear, and contaminant-free surfaces in anticipation of the final stage.

The Oven Bake cures the externally-coated surfaces of the heat exchanger at 350° F for 20 minutes. This stage ensures cross linking occurs for superb adhesion and durability, and the heat exchanger is now ready for shipping.