



Luvata Insitu®

Spray-Applied Corrosion-Resistant
Coil and Cabinet Coating

Luvata Insitu® is a water-based (solvent free) and water-reducible synthetic flexible polymer coating engineered specifically for HVAC/R heat transfer coils and components. Luvata Insitu® is applied at our facilities or on-site after the units have been manufactured.

Benefits of using Insitu spray-application process are:

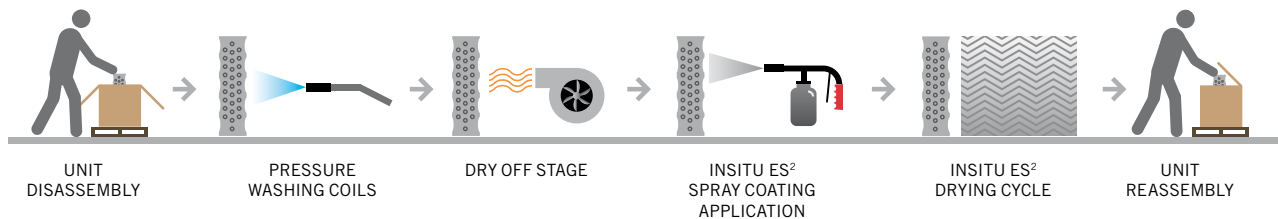
- Modernized, fully-licensed and permitted facilities
- Applied in our facilities or on-site
- A post-manufacturing coil and cabinet coating application
- Applied by Luvata-certified employee technicians
- Excellent corrosion and UV resistance make it suitable for coastal environments
- Extends the operational



About Luvata

Luvata is a world leader in metal fabrication, component manufacturing and related engineering and design services. We are committed to partnering with our customers to help them increase their competitiveness. Our products and services enable our customers to improve operational efficiency, improve products and reduce tied-up capital. Because we focus on our customers' results and are unfailingly reliable, we are the partner on which our customers base their future development.

Spray-applied Insitu® Process



Specifications

Luvata Insitu® contains ES² (embedded stainless steel pigment) technology, an anti-corrosion coating specifically designed for the protection of coils mounted in corrosive areas. Coils will have a permanent, water-based synthetic coating with ES² pigment applied to all coating surface areas without material bridging between fins. The coating process will ensure a uniform dry film thickness of 0.6-1.2 mils and meet 5B rating cross-hatch adhesion per ASTM B3359-93. Corrosion durability will meet a minimum 5,000 hours salt spray resistance per ASTM B117.

Corrosion Resistance

ES² pigments are a made from a high-performance stainless alloy which is resistant to corrosive conditions. ES² pigments are therefore suitable for even the most corrosive environments, and will maintain their appearance after many years of exposure.

Resistance to UV Degradation

ES² pigments form a multi-layer structure throughout the paint film. This creates a barrier layer which reflects sunlight away from the paint film, and prevents ultraviolet rays from penetrating. As a result, UV degradation of individual polymer molecules is eliminated, the film integrity is maintained, and the pigment particles are well anchored to the substrate. The resultant smooth, hard finish stops dirt from accumulating.

Resistance to Moisture

The multi-layer structure of the ES² pigments slows the passage of water molecules into the film and acts as an effective moisture barrier. This prevents the subsequent swelling and deterioration of the protective film.



7.5 ton RTU before and after Luvata Insitu® application

Technical Performance

Test	Standard	Qualification
Salt Spray	ASTM B117	Exceeds 5,000 hours
Water Immersion	ASTM D870	3 months
Pencil Hardness	ASTM D3363	HB-F
Cross Hatch Adhesion	ASTM D3359	5B
Humidity	ASTM D2247	500 hours
UV Resistance	ASTM D4587	500 hours
Mandrel Bend (Flexibility)	ASTM D522	Passed 1/8 inch
Mold Resistance	ASTM G21	Passed
Sand & Dust Resistance	MIL-STD 810F	Passed

Luvata Insitu® is suitable for these types of equipment

- Coils (water, condenser, evaporator, DX)
- Mini-splits
- Packaged Rooftops
- Condensing Units
- Modular Air-handlers
- Air-cooled Chillers
- Interior & exterior HVAC cabinetry and copper piping

Services include

- Unparalleled customer service
- Standard lead-time for typical job is 5-7 days
- Crane off-load
- Local deliveries available
- On-site applications available

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