



TECHNICAL DATA SHEET

GENERAL DESCRIPTION
– SUBJECT TO CHANGES OR DEVIATIONS

Insitu[®] ES² HH Spray Applied, Anti-Corrosion Coil, Components and Cabinet Coating for Extreme Environments

APPLICATIONS IDEALLY SUITED FOR INSITU[®] SPRAY APPLIED COATING

- Mini-splits
- Packaged Rooftops
- Condensing Units
- Modular Air-handlers
- Air-cooled Chillers
- Interior & exterior HVAC cabinetry and copper piping

PRODUCT DESCRIPTION

Insitu[®] ES² HH Spray Applied Coating is a water-based and water reducible synthetic flexible polymer anti-corrosion coating system specifically designed for the protection of HVAC&R coils, cabinetry and components in extreme environments. Insitu[®] Spray Applied Coatings are formulated to improve corrosion durability, UV protection, moisture resistance, and adhesion. The product can be applied at your premise or on-site after installation.

SPECIFICATIONS

Heat exchanger (HX) coils, cabinets and optional internal HVAC components shall have a water-based synthetic polymer coating embedded with 316L stainless steel pigments spray applied with no runs, sags, or material bridging between fins. The spray coating process shall ensure a uniform dry film thickness of 15-30 µm (0.6-1.2 mils) and meet 5B rating crosshatch adhesion per ASTM D3359. Corrosion durability will be confirmed through testing to no less than 15,000 hours salt spray resistance per ASTM B117 using aluminum test coupons.

| PROPERTY | TEST METHOD | PERFORMANCE |
|------------------------------|-----------------|----------------------|
| Salt Spray | ASTM B117 | Exceeds 15,000 hours |
| Mandrel Bend (Flexibility) | ASTM D522M | Pass 1/4" |
| Pencil Hardness | ASTM D3363 | HB |
| Cross Hatch Adhesion | ASTM D3359 | 5B |
| Humidity | ASTM D2247 | 1,000 hours minimum |
| SWAAT | ASTM G85 A3 | Exceeds 2,400 hours |
| UV Resistance | ASTM D4587 | 1,000 hours minimum |
| UV Resistance | ASTM G155 XENON | 2,000 hours |
| C5-I Continuous Condensation | ISO 6270 | Pass |
| C5-I Salt Spray | ISO 7523 | Pass |
| C5-I Chemical Resistance | ISO 2812-1 | Pass |
| Direct Impact | ASTM D2794 | Pass 160# |

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