

## TECHNICAL DATA SHEET

GENERAL DESCRIPTION  
– SUBJECT TO CHANGES OR DEVIATIONS

### Insitu<sup>®</sup> ES<sup>2</sup> EX Spray Applied Coating, Anti-Corrosion Coating for Copper Refrigeration Pipes

#### APPLICATIONS IDEALLY SUITED FOR INSITU<sup>®</sup> SPRAY APPLIED COATING

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

#### PRODUCT DESCRIPTION

Insitu<sup>®</sup> ES<sup>2</sup> EX Spray Applied Coating is a water-based and water reducible synthetic flexible polymer anti-corrosion coating process specifically designed for the protection of copper refrigeration piping. Insitu<sup>®</sup> Spray Applied Coating is formulated to improve adhesion, moisture resistance, UV protection, and corrosion durability. The product can be applied on-site after installation by one of our professionally trained Certified Applicators.

#### SPECIFICATIONS

Copper refrigeration piping shall have a water-based synthetic polymer coating with embedded stainless steel pigments spray-applied with no runs or sags. The spray coating process will 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 salt spray 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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