

Insitu[®] AM

Spray-Applied Antimicrobial Coil Coating

Silver Ions from the Agion[®] compound are built into our coating for long lasting anti-microbial protection. The Agion antimicrobial coating inhibits the growth of bacteria, molds, fungi and other microbes through the release of silver (Ag) ions. Agion is designed to automatically release its antimicrobial components ONLY when conditions for bacteria growth are present. This capability results in the longest lasting protection against microbes.

HOSPITALS



RESTAURANTS



HOTELS



- Insitu[®] AM is a durable, antimicrobial coating designed for high performance in HVAC environments
- The coating is colorless (clear) and can be applied as a top coat over Insitu[®] ES²
- Insitu[®] AM is embedded with AgION™, is UV Resistant (UVA & UVB) and is a ONE PART, low VOC solution
- The antimicrobial properties of Insitu[®] AM become active when moisture is present and conditions are ideal for bacterial growth
- This action leads to long-lasting performance of Insitu[®] AM
- When properly applied, Insitu[®] AM will protect coils & cabinets from a wide variety of bacteria, as well as mold, algae, and mildew growth



COVID-19 has proven a need for an increase to protect surfaces from not only viral strains but also germs and microbes that can reduce your body's immune system. Insitu[®] AM has great potential in HVAC systems for hospitals, schools, and anywhere else bacteria, mold and fungi are a concern. Applicable surfaces coated with Insitu[®] AM are being used successfully in a wide variety of air conditioning & refrigeration applications.

FUNGISTATIC AGENT IN INSITU[®] AM PROTECTS COATING FROM:

- Mold & mildew caused by fungal growth
- Staining and discoloration due to mildew growth
- Deterioration caused by mildew
- Microbial odor development floors and ceilings

TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	PERFORMANCE
Antifungal	ASTM G21-15	Zero growth
Dry Film Thickness	--	0.8 - 1.2 mil
Cross Hatch Adhesion	ASTM D3359-09	Method B. Rates 5B
Pencil Hardness	ASTM D3363-05	HB-F
Impact Resistance	ASTM D2794-93	160" lb Direct, 160" lb Reverse
VOC Content Mixed	--	119.79 g/l or 1.00 lb/gal
Salt Spray	ASTM B117-11	15,000+ hours
Humidity	ASTM D2247-11	No blisters after 1000 hours
Temperature Range Cured	—	0°F to 250°F
Odor	--	Little to none
Mandrel Bend	ASTM D522M-13	Method B: Pass 1/4" Bend
Staphylococcus Aureus	ISO 22196	99.996% or LOG 5 Reduction
E Coli	ISO 22196	99.99995% or LOG 6 Reduction
Pseudomonas	ISO 22196	99.9991% or LOG5 Reduction

WHY USE INSITU AM?

- Insitu® AM is applied as an after-market coating. Ideal for HVAC copper tubing, internal components and cabinet walls.
- Use of Insitu® AM is a cost effective measure for IAQ improvement.
- The Agion compound has been approved by the US EPA for use in HVAC Systems – under EPA Registration No. 71227-7-88165.
- Insitu® AM is specifically formulated to resist mildew growth.
- Insitu® AM is also formulated to extend equipment life by controlling deterioration caused by mold fungus on coated surfaces.

IMPORTANT APPLICATION NOTICE

Insitu® AM is UV resistant, which means that the cured coating can be applied in direct/indirect sunlight (UVA & UVB) applications if required.

When cleaning, the surface of the coating should be cleansed with mild detergent and then air dried. Modine recommends Coil-Cure™ or GulfClean™ disinfectant and coil cleaner. Coil-Cure is an EPA registered cleaner and disinfectant as per 40 CFR 158.2203, destroys bacteria, fungi and viruses. Coil-Cure is a virucidal against Herpes Simplex Virus Type 1 & 2, Canine Parvovirus and disinfects against Legionella Pneumophila. Harsh abrasive cleaners, strong solvents, and acid based cleaners can cause coating damage. Insitu® AM is not intended for ductwork, insulation, duct board, blower wheels, or electrical components unless otherwise specified.

DISCLAIMER

The Agion® antimicrobial compound has been registered by the Environmental Protection Agency as an antimicrobial agent which can inhibit the growth of bacteria, molds and fungi and other microbes through the release of silver (Ag) ions. Modine Manufacturing Inc., Modine CIS Coatings, and Insitu® make no claim or assertion that the antimicrobial properties in the coating will improve air quality or eliminate the threat of disease causing organisms.

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