HERESITE

P-413

The corrosion control experts at Heresite share why you should implement coil coating to protect your HVAC equipment now.

By Laura Rote

In 1963, Heresite Protective Coatings was born serving the HVAC-R industry as the first company to develop a coating and process to significantly lengthen the lifespan of aluminum condensers and evaporators. The Heresite coating used today is notable for its most extensive data set.

Heresite at a Glance

- Resistance to extreme marine/salt-lair and chemical environments
- Corrosion protection delivered in a thin, flexible film
- Casting solutions for any style coil

The Best Time to Coat is Now

Hellman says proper coil coating from the outset can double or triple a component’s life. While coil coating may be done at different times, it works best when it’s completed before installation into a unit—fully immersing the condenser and evaporator coils to assure full coverage of the coil’s surface. While protective spray coatings are effective for certain coil-style and other part requirements, many coil-users are most satisfied with a full immersion process.

Heresite acknowledges the upfront costs of coil coatings, but it’s worth it to reduce the unit’s failure rate, according to Dan Puyleart, Heresite’s technical director. Some may prefer to use a different metal substrate to protect their unit, typically copper, but that adds cost, Puyleart says. “While the coating is adding value, it also adds cost,” he says. “A coating that performs well with static ASTM B-117 salt spray doesn’t necessarily pass the new P-413.”

Top-notch Testing, Proven Results

Several years ago, Heresite began looking at the International Organization for Standardization (ISO) testing procedures for coatings in offshore environments (ISO 20340). This testing process was used to develop the new P-413. While Heresite and competitors all complete ASTM-B117 static salt spray testing, Heresite does more intensive cycle testing, too. "The resulting film is more resilient to corrosion conditions, be it marine or chemical," he says.

Coil Coatings

Heresite’s use of the ISO-20340 procedure cycles the coating through salt spray, sunlight, and freezing weekly for 25 weeks. “A coating that performs well with static ASTM B-117 salt spray doesn’t necessarily pass this test,” Hellman says. If you’re looking for this kind of investment, don’t you want to know what the coating can really stand up to?

Of course, there are many styles of coils, from aluminum fins, copper tube to all-aluminum microchannel, and Heresite can protect them all. “We have coating options for any style of coil,” Hellman says. “Some people think you can cut cost with coils with some products, but we’ve done coils up to 30 fins per inch. We’ve coated coils greeter than 31 feet that weigh 15,000 pounds and we’ve done work that’s on the size of a tower. No matter your fin style or metal, we have options and processes to cut those surfaces.”

5 Reasons to Implement Coil Coatings

1 Prevent corrosion of HVAC equipment in coastal and marine areas, refineries, wastewater plants, swimming pool environments, and more.

2 Improve functionality of your equipment.

3 Protect your unit in a high humidity environment.

4 Easier to clean equipment.

5 Increased lifespan of your components.

HERESITE AT A GLANCE

- Resistance to extreme marine/salt-lair and chemical environments
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Since the 1960s, Heresite Protective Coatings has been serving the HVAC-R industry as the first company to develop a coating and process to significantly lengthen the lifespan of aluminum condensers and evaporators. The company has the longest track record of providing high-quality protective coatings for air conditioning and refrigeration systems in residential and commercial applications. The company is now the leader in coating protection for the most corrosive environments, with the industry’s most extensive data sets.