



LRC Coat™ - SELF CLEANING Formula REPELS MOISTURE and ACTIVELY KILLS Biofilm Contamination

LRC Coat™ is an exclusive coil coating material designed to **repel moisture** from HVAC equipment. Moisture is shed so quickly that the **coil becomes self-cleaning** which helps your equipment

stay efficient. LRC Coat™ also features an **anti-microbial formula** that actively **kills harmful biofilm** (algae/bacterial) growth that can lead to airflow contamination and increased pressure drop.

Corrosion Protection That Saves Money and Cleans the Air

LRC Coat™ is a proprietary hydrophobic (water repelling) protection system that virtually eliminates condensate adhering to a cooling coil. LRC Coat™ also provides anti-microbial protection to HVAC equipment by exterminating unhealthy biofilm (algae/bacteria) that can grow on a moisture saturated coil. Eliminating biofilm helps reduce contaminated air and increased pressure drop.

Tests show that equipment coated with LRC Coat™ can be considered "self cleaning" due to the speed of condensate run-off. Clean equipment saves money. An ASHRAE study has shown that cleaned installed air handlers, "... resulted in a decrease in the pressure drop across the coil, of approximately 14%." (*Study Verifies Coil Cleaning Save Energy*, ASHRAE Journal, Nov. 2006.)



If you see blue coils, you know its been coated with LRC Coat™.



Don't let your coils corrode in harsh environments. Call LRC Coil today.

Dipped/Baked Coating Stands Up To Harsh Environments

LRC Coat™ protects coils and HVAC equipment from most aggressive environments because the dipping process seals all surfaces between the primary tubes and secondary fins. By dipping each item after the unit is completely assembled, LRC Coat™ offers additional corrosion resistance over pre-coated fins that can be compromised during the manufacturing process.

LRC Coat™ coatings are designed to protect ferrous and non-ferrous metals. Coatings will not bridge between fins or enhanced fins. Average coatings are between .28 and .35 mils thick and will protect coils and HVAC equipment from all but the harshest environments. For extremely corrosive applications, HVAC equipment can be "double dipped" for additional protection, providing twice the protection with a coating thickness under 1 mil.



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**Call TODAY for
more information**



LRC Coat's Self Cleaning Formula Repels Moisture and Condensate

When condensate builds up on HVAC equipment, it attracts dirt and other contaminants, which causes corrosion. LRC Coat's self cleaning formula aggressively repels moisture from coated surfaces which enables your equipment to stay clean and corrosion free.

New coils with aluminum fins display hydrophobic (water repelling) properties. However, after the aluminum is exposed to the elements, the aluminum fins begin to oxidize, which rapidly changes the fins from hydrophobic to hydrophilic (moisture absorbing). (See Chart 1)

Uncoated Coil with Aluminum Fins (Chart 1)

Installation	Weight Dry	Weight Wet	Net H ₂ O Weight	H ₂ O/Sq. Meter	H ₂ O Carrying %
New	1.652 g	1.686 g	0.034 g	1.70 g	100%
6 months	1.708 g	1.936 g	0.228 g	11.4 g	670.6%
1 year	1.740 g	2.008 g	0.268 g	13.4 g	788.2%

After 6 months, the aluminum fins in a newly installed coil have corroded so they can carry 6.7 times MORE water than when they were new. At 12 months, the aluminum fins can carry 7.9 times MORE water than the new aluminum fins.

When coils are coated with LRC Coat™, studies show that aluminum fins can carry 4.25 times LESS water than new aluminum fins. And aluminum fins coated with LRC Coat™ show no change in water carrying characteristics after 6 months or 12 months. (See Chart 2.)

Coil with Aluminum Fins Coated with LRC Coat™ (Chart 2)

Installation	Weight Dry	Weight Wet	Net H ₂ O Weight	H ₂ O/Sq. Meter	H ₂ O Carrying %
New	1.773 g	1.781 g	0.008 g	0.40 g	23.5%
6 months	1.773 g	1.781 g	0.008 g	0.40 g	23.5%
1 year	1.773 g	1.781 g	0.008 g	0.40 g	23.5%

LRC Coat's self cleaning formula actively repels water which keeps dirt and contaminants from building up on aluminum fins, keeping your HVAC equipment running

at peak capacity. LRC Coat also includes a strong anti-microbial agent which virtually eliminates bacteria and biofilm build-up, which can cause unhealthy building air.

Tests Performed on LRC Coat™ Test Specifications

ASTM B117	3,000 hour Salt Spray Test - <i>Passed!</i>
ASTM G-85	2,000 hour modified Salt Spray Test - <i>Passed!</i>
ASTM G-87	Moist SO ₂ Test - <i>Passed!</i>
ASTM D-522	Coating Flexibility Test - <i>Passed!</i>
Steam Exposure	48 Hour Test (proprietary) - <i>Passed!</i>
MIL-STD 810	Dust Resistance Test - <i>Passed!</i>
ASTM D3273	Resists mold growth on interior applied coatings - <i>Passed!</i>
ASTM G-21	Resists fungal contamination common in HVAC systems - <i>Passed!</i>
FDA Title 21, CFR175.300	Meets Federal requirements for indirect food application - <i>Passed!</i>

LRC Coat™ has a 5 Year Warranty. Call LRC for details.

LRC Coat™ Technical Specifications

Coating Properties	High performance water based epoxy resin
Application / Color	Dipped and Baked / Translucent Blue
Chemical resistance	Excellent (exceptions - strong alkalis/oxidizing chemicals)
Film Thickness / Flexibility	7 - 9 microns (0.28 - 0.35 mils)/Excellent
Temperature range	Up to 248°F (120°C)
Coil frames	All ferrous and non-ferrous coil substrates
Fin Type / Pattern / Bridging	Copper or Aluminium / Standard or Enhanced / Nil
Pressure Drop	Negligible
Thermal Loss	<.05%
Field Repairable	Yes

Call TODAY for details

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COIL COMPANY

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