

K.M. Facility Services, LLC

Coil Shield

Preventative Maintenance for Condenser Coils

- **BEYOND STATE OF THE ART**
- **SUPER FAST**
- **APPLY IN HOUSE OR ON SITE**
- **LABORATORY TESTED**

Coil Shield is the solution that helps you win the battle against coil corrosion.

THOROUGHLY TESTED AGAINST SALT AIR CORROSION

Now proven advanced technology from **Controlled Release Technologies** brings an end to costly coil replacement due to coastal salt-air corrosion.

Independent laboratory test results were stunning: **Coil Shield** withstood four-thousand hours in severe salt spray chamber tests with virtually no corrosion! Untreated coil specimens literally fell apart.



Now with **Coil Shield** you can save yourself the aggravation of coil repair and replacement costs.

Don't ship coils away to be coated. Do it yourself in minutes. No skilled labor or coil prep is required. Control corrosion on your coils.

HERE'S HOW EASY IT IS!

When applying **Coil Shield** to condenser coils in the field, the coils should be cleaned first, and all chemical residuals rinsed off. The unit should be turned on, and the condenser coils allowed to dry before applying the product.

When spraying the condenser coil, the fan should be on for the purpose of allowing the **Coil Shield** to penetrate to the interiors of the coil.

PHYSICAL CHARACTERISTICS

Coil Shield is a water-based emulsion with no petroleum solvents. It is a non-flammable, very low voc product (approximately 9 grams/liter VOC).



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Extensive laboratory and field tests have demonstrated **Coil Shield** to significantly reduce coil corrosion under the most aggressive conditions. A fraction of the cost of previous methods, **Coil Shield** does not negatively influence unit efficiency as do painted-on coatings.

Un-retouched, actual laboratory photos show the results of **Coil Shield** on standard HVAC fin sections.

Coils were exposed in a salt spray chamber, where they were bombarded with a fog of salt followed by heating and ultraviolet light exposure.

This severe treatment continued for four thousand (4,000) hours, equivalent to well over a year in the harshest climate conditions known.

At the end of the continuous exposure, the untreated coil was removed, as shown in photo #1.

Note the heavy fin corrosion, with parts of the coil disintegrating down to the internal copper tubing.

Corrosion reduces efficiency of the unit long before it reaches this point. The only choices here are to purchase a new unit or pay labor and material cost for coil removal and replacement. Failure to replace such corroded coils in a timely fashion could result in premature failure of other systems components such as the compressor in the case of DX units.

Many HVAC units near coastal waters are particularly susceptible to rapid corrosion in as little as a year. In the past, the only sure-fire method of protection was "painting" the coils. The coils could be sent away, an expensive proposition, or you could attempt

to do the time consuming job of painting yourself. The low cost of **Coil Shield** compared to expensive and time consuming painting makes it the product of choice for highly effective corrosion resistance.

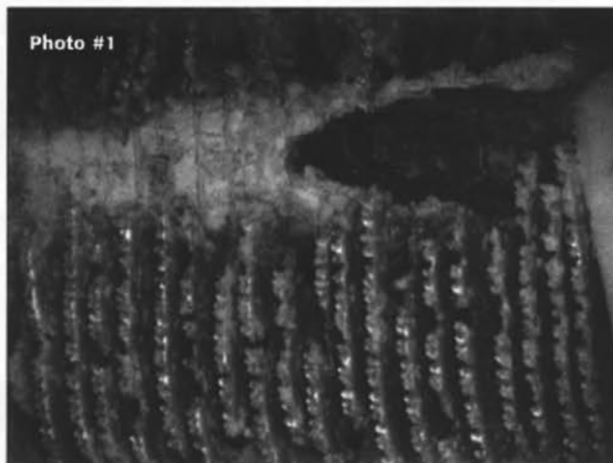
Coils protected with **Coil Shield** were exposed to the same torture test and the coil survived virtually unaffected (photo #2). This is the type of high performance that increases the lifetime of your investment.

Notice the sharp edges on the coil surfaces and lack of noticeable corrosion. There is no breach of fin contact with the copper coils underlying the fins.

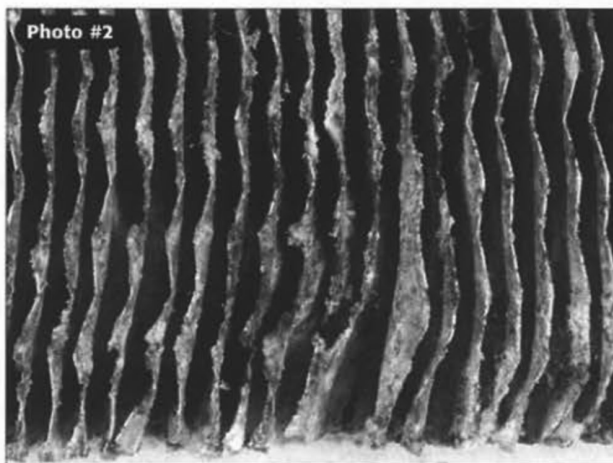
Your contractor will recommend proper application intervals, based upon your location and the environmental conditions.

Stop looking at a future of financial loss due to coil replacement and low unit efficiencies from corrosion.

Apply Coil Shield now and secure your equipment investment against early failure.



**Untreated Coil after 4,000 Hours
Exposure in Salt Spray / UV Chamber**



**Coil Shield Protected After 4,000
Hours Exposure In Salt Spray / UV Chamber**

Coil Shield Application Instructions

Directions: **SHAKE WELL BEFORE USING**

PREPARING THE SURFACE - Clean coils well using a mild alkaline cleaner. Rinse thoroughly with water for 3 to 5 minutes, until all foam, dirt and cleaner residuals are washed away. Rinsing is important, pay close attention to the bottom of the coil. Coils must be free of all dirt, detergents, and oils before application.

APPLYING COIL SHIELD - Apply Coil Shield to wet or dry coils in a fine mist using a garden or pump sprayer. Running the system fan on low during application helps pull Coil Shield into interior surfaces for more complete coverage.

Unit can be put into service immediately.

DO NOT FREEZE
SHAKE WELL

FIRST AID: EMERGENCY TELEPHONE: 1-800-255-3924

SEE MSDS KEEP OUT OF REACH OF CHILDREN

INHALATION: Remove person to fresh air.

SKIN: Remove contaminated clothing, wash affected area with soap and water.

EYES: Flush eyes with water for 15 minutes.

INDIGESTION: Give two glasses of water, DO NOT induce vomiting. Seek medical attention.

COVERAGE: 1300 square feet per gallon

(1 gallon is enough to cover the front and back of a 50 ton coil)