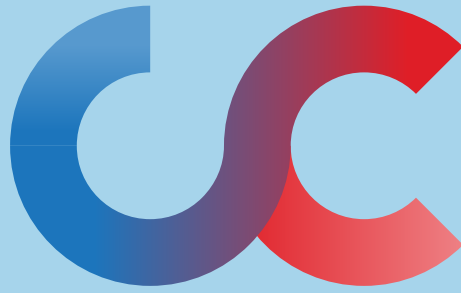
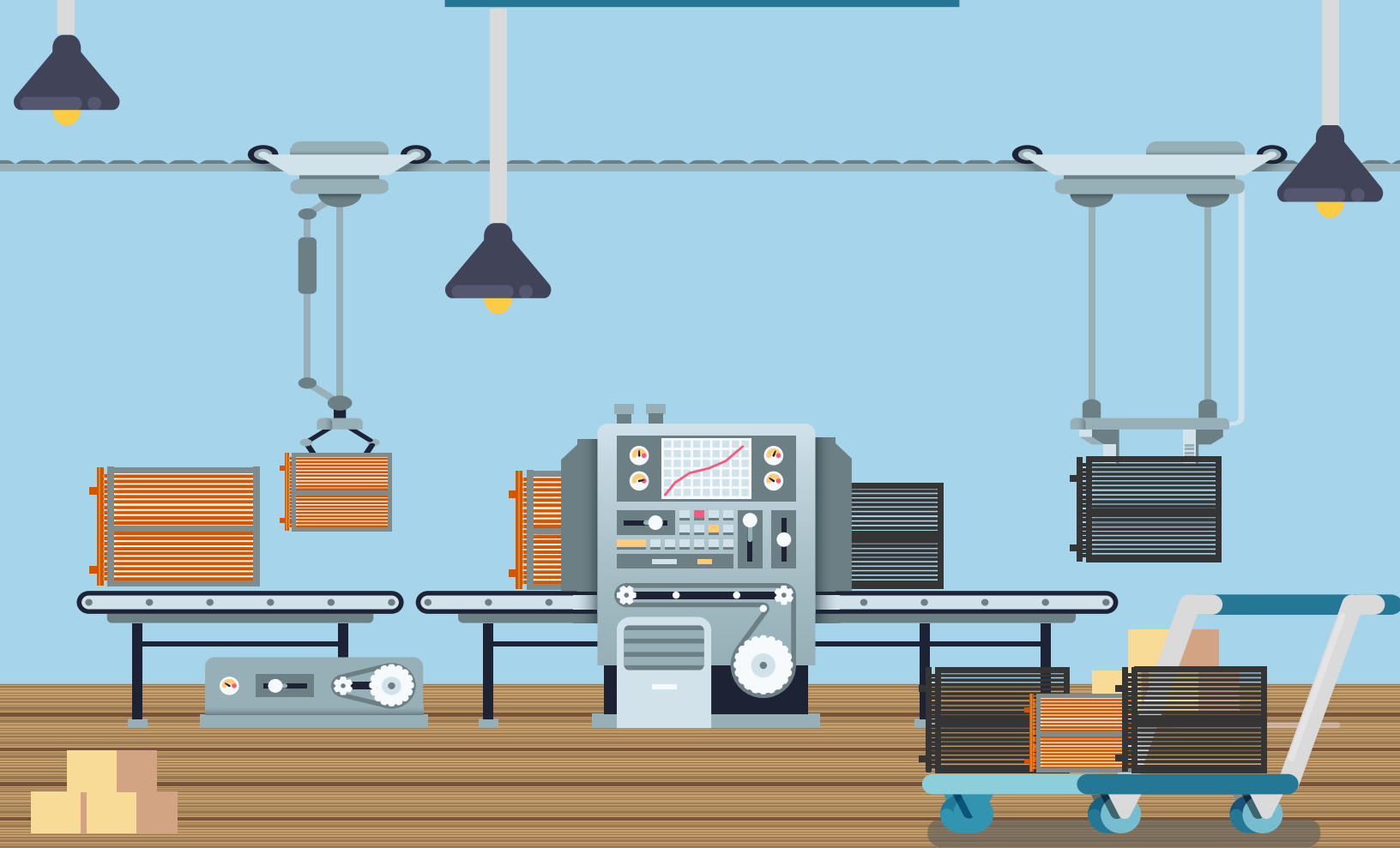


# COIL COMPANY



HEAT EXCHANGE | AIR HANDLING



## COIL COATING OVERVIEW

Coatings for every industry and build. Keep your systems protected and running with FinKote Coatings.



FinKote2



FinKote Zx



FinKote Rx

FinKote 2

# COIL COATING

**FinKOTE2**  
Premium Solution for Corrosion Protection



## PRETREATMENT

Parts are cleaned and pretreated with a conversion coating to prepare the part for electro-coating. This process guarantees a perfect final coat that is able to withstand corrosive environments where conventional coils would break down and fail.



## ELECTRO-COAT

Direct current is applied between the parts and an electrode. Paint is attracted by the electric field to the part where the current is deposited. This process allows for a durable and longer lasting bond that is optimal for areas that are unable to be painted conventionally.



## RECOVERY

Every coil and all its parts are rinsed to reclaim deposited paint solids, ensuring a perfect coating with no leftover residue or product waste. Any debris or foreign material could effect performance and result in possible system failure. Perfection and complete customer satisfaction is our number one priority.



## CURE

Paint is thermally cross-linked and cured to the surface. Our curing process allows for a total dry and hardened exterior in a short period of time. With the heat application and curing process you can rest assured that your coating will provide adequate protection and increase longevity.

FinKote2 is the premium coating system for the HVAC industry. Years of ineffectual coatings in the HVAC market prompted the development of FinKote as a way to address those shortcomings. Finkote is a high edge build e-coating system that effectively coats both microchannel and tube and fin coils in AC units. Aluminum, copper, and steel coils can now be protected from corrosion, particularly in cases of high UV exposure, coastal installations, and offshore projects — anywhere with a highly abrasive environment that will cause premature wear on coils. FinKote2 is the most advanced currently available e-coat system in the HVAC industry.

FinKote2 now includes a standard 6 Year Warranty!

Have any questions or need any additional information? Contact us today at 800.523.7590 - We are here to help!

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# FinKote 2

# COIL COATING



| FinKOTE2 PERFORMANCE TESTING     |                          |  |
|----------------------------------|--------------------------|--|
| TEST                             | SPECIFICATION            | RESULTS  |
| SWAAT run to fail                | ASTM G85 A3              | 289 Days (6936 hrs)                              |
| 30 Day SWAAT + Adhesion          | ASTM G85 A3, ASTM D3359  | Pass, 4B   |
| 2400 hr Cyclic corrosion + Burst | ASTM G85 A2              | Pass, 2100 psi                                   |
| Water resistance                 | ASTM D870-09             | Pass, 260 hrs, no flaking or chipping            |
| Chipping resistance              | ASTM D3170               | Pass, 7A   |
| Steam resistance                 | ASTM D714                | Pass, 48 hr, #6 or better                        |
| Humidity resistance              | ASTM D2247               | Pass, 600 hrs, no blistering or gloss loss       |
| UV & QUV resistance              | ASTM G53-88, D4587, D523 | 1000 hrs, no loss                                |
| Chemical resistance              |                          | 48 hr immersion resistant to over 200+ chemicals |
| Heat transfer                    |                          | <3%  |
| Thickenss                        | ASTM 376                 | .8 - 1.2 mil (E-COAT) 1.8 - 4 mil (total)        |
| Flexibility                      | ATSM D4145, ATSM 522     | 2T, 5/8" mandrel                                 |
| Impact resistance                | ASTM D2794-93            | 120 in. lbs, no cracking or chipping             |
| Adhesion                         | ASTM 3359                | 5B   |

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# Anti-Microbial COIL COATING



## Spectrum Microbial Control:

Fungi, Mold, Mildew, Germs, Gram (+) and Gram (-) Bacteria, Yeast, and Algae.



### INFINITE LIFE

The film cannot be removed by moving air, water/detergents, or physical touch. The longer polymer chains will kill microbes on contact as long as the microbes can come in contact with the treated surface.



### BROAD APPLICATIONS

The product provides the chemical stability needed for compatibility with all kinds of substrates and typical manufacturing processes while being able to survive the use and abuse of commercial and consumer applications.



### DURABILITY

As an organic functional silane, this chemistry has the ability to react with surfaces and with itself in ways that allow for durability consistent with the durability of the substrate that is being treated. The bound monomers react with each other to form a cross-linked polymer of extremely high molecular weight, thereby producing an essentially permanent antimicrobial surface.



### HOW IT BONDS

1. Ion Exchange - Very rapid cationic coating is developed one molecule deep. This is an ion exchange process by which the cation of the silane compound replaces protons from water on the surface.
2. Polymer Cross-Linking - 2 ways - The silane compounds have silicon functionality enabling them to polymerize, after they have coated the surface, to become almost irremovable even on surfaces with which they cannot react, covalent bonding to that surface will also occur and it is also possible to have intermolecular polymerization.



## STANDARD 1 YEAR WARRANTY

Dramatically Reduces the Growth of Germs On Surface • 99% Effective Against Mold, Mildew, E Coli, H1N1 and MRSA • Permanently Bonded To The Surface • Destroys Microorganisms by Attacking the Cell Membrane

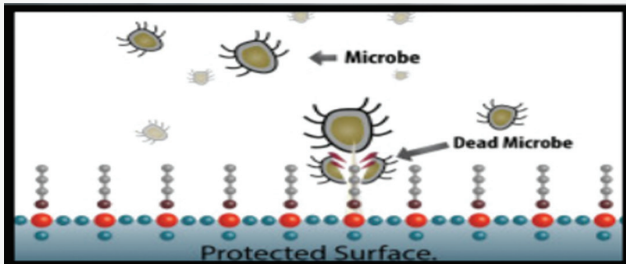
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# Anti-Microbial COIL COATING



## PARTIAL LIST OF PATHOGENS DESTROYED OR INACTIVATED



### Gram Positive Bacteria

Bacillus sp. (vegetative cell)  
Bacillus subtilis  
Clostridium difficile  
Corynebacterium diphtheriae  
Enterococcus sp. (incl. VRE)  
Listeria  
Micrococcus sp.  
Mycobacterium tuberculosis  
Mycobacterium smegmatis  
Propionibacterium acnes  
Staphylococcus aureus  
Staphylococcus aureus (MRSA)  
Staphylococcus epidermis  
Streptococcus faecalis  
Streptococcus mutans  
Streptococcus pneumonia  
Streptococcus pyogenes

### Viruses

Adenovirus Type II & IV  
Bovine Adenovirus Type I & IV  
Feline pneumonitis  
Herpes simplex Type I  
Herpes simplex Type II  
HIV-1  
Influenza A2 (Aichi)  
Influenza A2 (Asian)  
Influenza B  
Mumps  
Norovirus  
Parainfluenza (Sendai)  
Rous sarcoma  
Reovirus Type I  
Simian Virus 40  
Vaccinia  
MS2  
PRD1

### Gram Negative Bacteria

Actinobacter aerogenes  
Actinobacter calcoaceticus  
Aerobacter aerogenes  
Aeromonas hydrophilia  
Citrobacter deversus  
Citrobacter freundii  
Enterobacter aerogenes  
Enterobacter agglomerans  
Enterobacter cloacae  
Enterococcus sp. coli  
Klebsiella oxytoca  
Klebsiella pneumoniae  
Klebsiella pneumophila  
Legionella morganii  
Mycobacterium tuberculosis  
Proteus mirabilis  
Vulgaris Proteus  
Pseudomonas aeruginosa  
Pseudomonas fluorescens  
Pseudomonas putida  
Salmonella cholerae suis  
Salmonella typhimurium  
Salmonella typhosa  
Serratia liquefaciens  
Serratia marcescens  
Treponema hyodysenteriae  
Xanthomonas campestris

### Fungi, Algae, Mold, Yeast, Spores

Alteraria alternate  
Aphanizomenon sp.  
Aspergillus flares  
Aspergillus niger  
Aspergillus sydowii  
Aspergillus terreus  
Aspergillus versicolor  
Aspergillus verrucari  
Anabaena cylindrica  
Aureobasidium pullans  
Candida albicans  
Candida pseudotropicalis  
Cephalascus fragans  
Chaetomium globosum  
Chlorophyta protococcus  
Chlorophyta selenastrum  
Chlorophyta sp.  
Chrysophyta sp.

Chrysophyta sp.  
Chlorella vulgaris  
Cladosporium cladosporioides  
Cyanophyta anabaena  
Cyanophyta oscillatoria  
Cyanophyta (blue-green) sp.  
Dreschlera australiensis  
Epidermophyton sp.  
Gliomastix cerealis Escherichia  
Gloeophyllum trabeum  
Gonium sp.  
Microsporium sp.  
Microsporium audouinii  
Monilia grisea  
Oscillatoria sp.  
Penicillium chrysogenum  
Penicillium commune  
Penicillium funiculosum

Penicillium pinophilum  
Penicillium variable  
Phoma fimeii  
Pithomyces chartarum  
Poria placenta  
Pullularia pullans  
Scenedesmus  
Saccharomyces cerevisiae  
Sclerotinia sclerotiorum  
Selenastrum gracile  
Selenastrum sp.  
Trichoderma viride  
Trichophyton interdigital  
Trichophyton maidson  
Trichophyton mentagrophytes  
Trichophyton sp.

Extreme Environment Coating

# COIL COATING

**FinkOTE<sup>Zx</sup>**  
Extreme Environment Coating Systems



## OUR COATING

Advanced Zirconium Oxide Pretreatment • Electro-deposit Epoxy Base Primer - NSF51 Certified • Cross-linked Top Coat - FDA Compliant • Extreme chemical resistance • Acid Resistant, Chlorides, Sanitizers, H<sub>2</sub>S



## PERFORMANCE TESTING

- Corrosion: ASTM G85-A3 6900+
- Adhesion: ASTM D3359 5B
- NSF - 51 Certified



## PROPERTIES

- EC-6100 Cathodic base primer
- Proprietary Chemical Resistant Top coats
- DFT - 1.5 - 2.8 ml
- Max temp - 550 F Continuous



## APPLICATIONS

Food Processing Plants, Waste Water Treatment Facilities, Airports, Refineries/ Chemical Processing, Offshore Platforms, Mining



## STANDARD 1 YEAR WARRANTY

FinkoteZx, a multi-layered coating process designed to withstand the worlds most challenging applications. Food processing plants, waste water treatment facilities, airports and refineries are locations where extreme chemical attack occurs. FinkoteZx custom formulates a coating package designed to meet the chemical resistance requirements of the location. NSF-51 Certified and FDA compliant top coats available.

Have any questions or need any additional information? Contact us today at 800.523.7590 - We are here to help!

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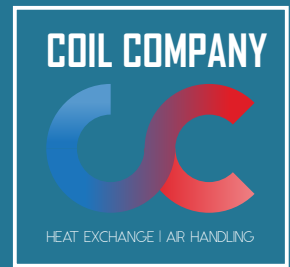
# Extreme Environment Coating

# COIL COATING



| FinKOTE Zx EXTREME ENVIRONMENT COATING SYSTEMS    |                        |                              |
|---|------------------------|------------------------------|
| FinKoteZx IS RESISTANT TO THE FOLLOWING CHEMICALS |                        |                              |
| Acetone   | Fluorides              | Ozone                        |
| Acetic Acid                                       | Formic Acid            | Peracetic Acid 0.08%         |
| Acetates  | Fructose               | Perchloric Acid              |
| Amines  | Gasoline               | Phosphoric Acid              |
| Ammonia   | Glucose                | Potassium Chloride           |
| Ammonium Hydroxide                                | Glycol                 | Potassium Hydroxide          |
| Amino Acids                                       | Glycol Ether           | Propyl Alcohol               |
| Bleach  | Hydrochloric Acid      | Salicylic Acid               |
| Butyl Alcohol                                     | Hydrogen Peroxide      | Salt Water                   |
| Calcium Chloride                                  | Hydrogen Sulfide       | Sodium Chloride              |
| Carbonic Acid                                     | Iodine                 | Sodium Hypochlorite 5%       |
| Chlorides   | Isobutyl Alcohol       | Sodium Hydroxide <10%        |
| Chlorine Gas                                      | Isopropyl Alcohol      | Sodium Sulfate               |
| Chromic Acid                                      | Kerosene               | Sucrose                      |
| Citric Acid                                       | Lactic Acid            | Sulfuric Acid 25-28%         |
| Creosol   | Methol                 | Sulfates                     |
| Diesel Fuel                                       | Methanol               | Starch                       |
| Ethyl Acetate                                     | Methylene Chloride     | Tolulene                     |
| Ethyl Alcohol                                     | MEK                    | Xylene                       |
| Ethyl Ether                                       | Methyl Isobutyl Ketone | Additional Testing Available |

# FinKote 2 Cleaning COIL COATING



## FREQUENCY

All coils must receive quarterly maintenance procedures outlined below to maintain your FinKote2 warranty as stated in the Terms and Conditions.



## SHUT OFF POWER

Follow lock out / tag out procedures to ensure the unit is powered down prior to any cleaning procedures.



## SAFETY

Safety procedures should be followed at all times. This includes, but not limited to, electrical power, protective clothing and proper tools to complete the task.



## CLEANING STEPS

1. All cleaning must be done in the direction of the fin stock to reduce fin damage.
2. Chlor\*Rid DTS must be properly flushed from the coil.
3. Be Gentle
4. Any pressurized cleaning systems can cause damage to the fins if you are too aggressive. Keep pressure nozzle at a 8"-16" distance from the coil with a 40° angular tip to prevent folding the fins over. Recommended maximum pressure should be 900 psi. Test a small section along the edge to establish distance and direction.
5. Bleach, household cleaners and contaminated water are not approved for cleaning and will reduce service life and void warranties.

This document provides guidelines for general and routine maintenance in accordance with FinKote2 warranty requirements. All manufacturers' directions for maintaining your system should be followed. This guideline provides the required cleaning intervals and steps to validate the FinKote2 warranty.

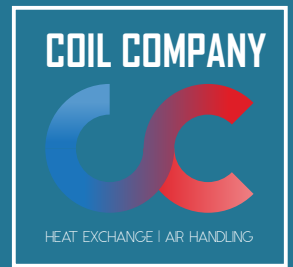
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# FinKote 2 Cleaning

# COIL COATING



## SOLUBLE SALT REMOVAL

Chlor\*Rid DTS may be applied using a low pressure pump-up sprayer and does not require dilution before being applied to a FinKote2 coil. It is necessary to wet the entire surface of the coil starting at the bottom and working to the top. After the surface has been thoroughly wetted and 5 minutes has elapsed, the salts will have been solubilized and rinsing will be required. Thoroughly rinse the coil from the front and back side using a pressure washer at less than 900 psi. Depending on the severity of the contamination, it may be required to repeat the salt removal process



## SURFACE PREP

Coils may exhibit a build-up of dirt, grass, ragweed and many other airborne contaminants. Avoid pushing or driving materials deeper into the coil while cleaning. Use a soft bristle brush and/or a shop vac to remove as much debris as possible from the surface of the coil. If necessary, wash the face of the coil using a pressure washer with a maximum pressure of 900 psi at the spray tip. This should be done at a distance of 8"–16" and in the direction of the fin stock.



## DOCUMENTATION

1. Record date of installation
2. Record quarterly cleaning methods and service provider
3. Contact your FinKote2 representative if you have any questions or if you need assistance.



## CHEMICALS TO USE

Use Chlor\*Rid DTS for the removal of chlorides, sulfates, nitrates and soluble salts.

This document provides guidelines for general and routine maintenance in accordance with FinKote2 warranty requirements. All manufacturers' directions for maintaining your system should be followed. This guideline provides the required cleaning intervals and steps to validate the FinKote2 warranty.

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# COIL COMPANY



HEAT EXCHANGE | AIR HANDLING

Coil Company's mission is to provide our customers quality expertise in the replacement coil industry. Our experienced sales engineers are not interested in replacing a problem with another problem. Coils that fail prematurely have a reason. If we can find the reason, then most of the time we can offer an arrangement or alternative construction that provides more efficiency and longevity. When it comes to building coils for any application, Coil Company has the capability to meet your requirements. Our number one goal is for our customers to feel informed and reassured that they're in the right hands.

When Coil Company first started out, we saw a need for experts in the replacement and retrofit industry and wanted to provide a solution to that need. Over 50 years later, we are proud



to say that we have found and perfected that solution. Since Coil Company first came to be; our products, marketing techniques, and

technology have all adapted and changed, but one thing that has stayed the same is our commitment to helping our valued customers.

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