

CLEAR GUARD COPPER PREVENTIVE COATING™

AREA OF APPLICATION

Air Conditioners

Water Coolers

Deep Freezers

Industrial Chillers

Panel AC

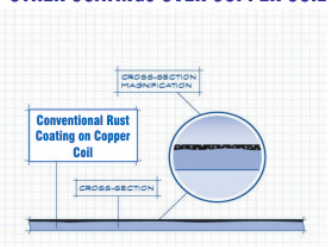
Industrial Application

WHAT IS CLEAR GUARD COPPER COATINGS ?

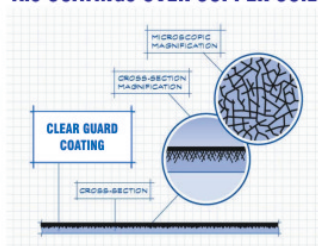
High Performance single-solution corrosion-blocking coating, our coatings is most suitable for porous substrates. Extensive industrial applications and rigorous laboratory testing have demonstrated that these coatings have :

- Strong resistance to salt water
- Extremely weather resistant
- Superior resistance to wear
- Excellent adhesion properties

OTHER COATINGS OVER COPPER COIL



A.S COATINGS OVER COPPER COIL



CLEAR GUARD COPPER PREVENTIVE COATING

CHEMICAL RESISTANCE GUIDE

Exposure	Fumes	Splash & Spillage
Acids	Very Good	Very Good
Alkalies	Excellent	Very Good
Solvents	Excellent	Very Good
Salts	Excellent	Very Good
Water	Excellent	Very Good

Corrosion is the degradation of metal caused by a reaction with the environment, such as oxidation and chemical attack of the metallic surface. Copper is susceptible to attack from sulfur-containing gases. The result is the formation of a nonproductive layer on the material surface. Unprotected metal will continue to react with the contaminant and corrode. Under severe, prolonged conditions, the metal continues to corrode until the

integrity of the equipment is jeopardized. Unprotected copper in polluted industrial environments can lead to failure of the refrigeration system. Sulfur- and nitrogen-based electrolytes are often the cause of accelerated corrosion in industrial environments.

Since general corrosion consumes metal and forms metal oxides, unsightly surface conditions result. Surface tarnish on copper, such as black, green, brown, or yellow deposits, lead to the perception of poor quality.

Copper-fin coils experience similar attack of the copper metal. Failure of a contaminated copper-fin coil can result from fin degradation and ultimately lead to loss of tube integrity.

A clean copper tube in an uncontaminated atmosphere maintains system integrity. However, in a contaminated atmosphere, metal oxides begin to form on the copper tube. Prolonged exposure to a contaminated atmosphere usually results in tube failure.

Air conditioner evaporator coil easily gets effected black corrosion on copper tubing components. The corrosion can result in refrigerant leakage making it impossible to cool the home requiring coil replacement.

Coil failures indicative of this problem typically occur every 6-14 months.

These Black Corrosion must have been observed by you on Following:

- copper wires, ground wires, and electrical connectors
- un-insulated and un-coated copper pipes and fittings

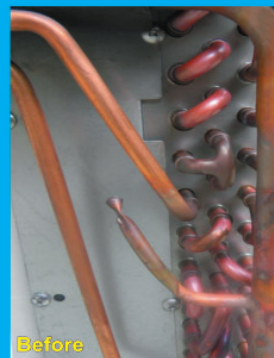
BLACK CORROSION ON COPPER COILS



New Copper Coil

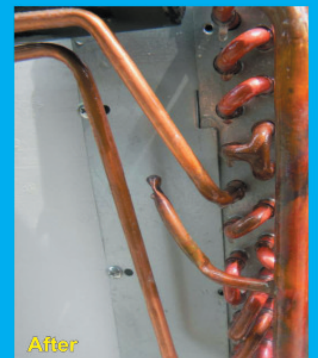
Rusted Copper Coil

GERMAN TECHNOLOGY



Before

Unprotected Copper Coil



After

Protected with Clear Guard Coating

Specially Designed for Copper Tubing of Cooling Coil & Condenser

PRODUCT APPLICATION GUIDE

FOR INDUSTRIAL APPLICATION



Proper Cleaning. Remove Dust & Dirt.



Mixing Ratio 3:1 Mix Part - A & Part - B Only when Required .



After Mixing of Products Part - A & Part - B, Use with in 20 minutes else product will become hard.



Use BRUSH for Application.



Drying Time 6 to 8 Hrs.



Product by :

AUTOMOTIVE SOLUTIONS™

WWW.AUTOMOTIVESOLUTIONS.NET.IN

Regd. Office : 11/9, Ground Floor, Old Rajinder Nagar
New Delhi - 110060, INDIA.

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