



## VCI ADDITIVES FOR FORMULATORS

# Cooling Tower Frog™ Patent Pending

### PRODUCT DESCRIPTION

Cortec's Cooling Tower Frog™ is a Vapor Corrosion Inhibitor (VCI) powder packaged in polyvinyl-alcohol (PVA) water-soluble bags. It is specially developed for dry lay-up of cooling towers for seasonal, short or long-term lay-up. Cooling Tower Frog™ is effective up to 12 months. This product offers an extremely efficient method of protecting multimetal in enclosed spaces. When the bag is cut open, the VCIs vaporize and adsorb on all metal surfaces - reaching even recessed areas and interior cavities. The VCIs form a strong, self-replenishing, protective, molecular layer on the metal. Designed for ease of application, Cooling Tower Frog™ enables an easy start-up.

### FEATURES

- Provides continuous multimetal corrosion protection during lay-up period
- Provides three phase multimetal protection - vapor phase, liquid phase and the vapor-liquid interface
- Protects inaccessible and recessed surfaces
- Requires little or no surface preparation
- No special preparation necessary prior to start-up
- Eliminates environmental hazards and disposal problems
- Reduces chemical consumption and cost
- Provides easy, convenient, hands-off application
- Enables safe handling
- Easy to apply
- Increased worker productivity
- Replaces hazardous oil-based products
- PVA bags are fully biodegradable

### METHOD OF APPLICATION

Remove and discard outer barrier bag.

#### *Dry lay-up:*

Place bags flat into the cooling tower basin and slit open water-soluble bags to begin corrosion protection. Two bags treat up to 1,000 gallons or 3,800 liters (133.7 ft<sup>3</sup> or 3.8 m<sup>3</sup>) of enclosed space.

Note: After application, the internal spaces should be sealed from the outside atmosphere.

### DIMENSION

Bag 10" x 14" (25 cm x 35 cm)

### PHYSICAL PROPERTIES OF POWDER

Appearance	White to off-white powder
pH	6-7 (1% aqueous)
Melting Point	371°-398°F (188°-203°C)

### PACKAGING AND STORAGE

Cooling Tower Frog™ is available in two 4 lb (1.8 kg) bags per box. Store in a sealed container in a dry and cool warehouse. Do not store in conditions above 150°F (66°C).

**FOR INDUSTRIAL USE ONLY**  
**KEEP OUT OF REACH OF CHILDREN**  
**KEEP CONTAINER TIGHTLY CLOSED**  
**NOT FOR INTERNAL CONSUMPTION**  
**CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION**

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