



# CORTEC CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

## Cooling Tower Frog® , Patented

### DESCRIPTION

Cortec's Cooling Tower Frog® is a Vapor phase Corrosion Inhibitor (VpCI®) powder packaged in polyvinyl-alcohol (PVA) water-soluble bags. It is specially developed for dry layup of cooling tower systems for seasonal, short-term, or long-term periods. Cooling Tower Frog® is effective for up to 12 months. This product offers an extremely efficient method of protecting multi-metals in enclosed spaces. When the bag is cut open, the VpCI® molecules vaporize and adsorb on all metal surfaces, reaching even recessed areas and interior cavities. These corrosion inhibitors form a strong, self-replenishing, protective molecular layer on the metal. Designed for ease of application, Cooling Tower Frog® enables an easy startup because it does not require removal.

### PACKAGING & STORAGE

Cooling Tower Frog® is available in two 4-lb (1.8 kg) bags per carton.

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

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 2 years

### VpCI® ADDITIVES FOR WATER TREATMENT



### FEATURES

- Continuous multi-metal corrosion protection during layup
- Multi-phase protection (vapor phase, liquid phase, and at the air-water interface)
- Fully biodegradable PVA bags

### BENEFITS

- Protects inaccessible and recessed surfaces
- Requires little or no surface preparation
- No special preparation necessary prior to startup
- Eliminates environmental hazards and disposal problems
- Reduces chemical consumption and cost
- Enables safe and easy hands-off application

### TYPICAL PROPERTIES

Appearance	White to Off-White Powder
pH	6-7 (1% in water)

### APPLICATION

#### Dry Layup:

Remove and discard outer barrier bags. Place bags flat into the designated equipment 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.**

# Cooling Tower Frog<sup>®</sup>, Patented

---

4119 White Bear Parkway, St. Paul, MN 55110 USA  
Phone (651) 429-1100, Fax (651) 429-1122  
Toll Free (800) 4-CORTEC  
info@corotecvci.com  
<https://www.corotecvci.com>  
<https://www.corotecwatertreatment.com>



## LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec<sup>®</sup> Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec<sup>®</sup> Corporation warrants Cortec<sup>®</sup> products will be free from defects when shipped to customer. Cortec<sup>®</sup> Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec<sup>®</sup> Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec<sup>®</sup> Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

**BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.** No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec<sup>®</sup> Corporation.

**THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC<sup>®</sup> CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**