



## CORROSION INHIBITING VpCI™ POWDERS

# VpCI™ -308 Powder

## Corrosion Inhibiting Powder for Multi-Metals



### PRODUCT DESCRIPTION

VpCI-308 is a Vapor phase Corrosion Inhibitor (VpCI™) in powder form for corrosion protection of ferrous and non-ferrous metals in recessed areas, interior cavities and voids.

In addition to enhanced multimetal protection and water solubility, VpCI-308 is a biodegradable product.

### FEATURES

- Provides up to 24 months of continuous protection in contact and vapor phases
- Creates monomolecular inhibiting layer
- Vapor phase inhibiting action protects inaccessible and recessed surfaces
- If VpCI layer is disturbed by moisture or opening of the enclosed space, the layer is replenished by continuous vapor redeposition
- Does not contain silicates, phosphates, nitrites, or heavy metals
- Biodegradable
- Little to no surface preparation is required
- Easy to apply
- When required, powder can be removed by blown air or water rinse
- VpCI layer does not interfere with operation of mechanical components
- Provides multimetal protection
- Commercial equivalent to Mil Spec: MIL I-22110C

### APPLICATIONS

- Bottom plate protection of above-ground petroleum storage tanks
- Tubular structures, pipes, and vessels
- Internal surfaces of compressors, turbines, engines, tanks, boilers, and heat exchangers
- Dry lay-up of closed circuit cooling systems
- Equipment protection after hydrostatic testing
- Cavities and void spaces on ships, barges, offshore platforms, sewage plants, dams, etc.

### DOSAGE

VpCI-308 protects up to 1 ft<sup>3</sup> (28 liter) of enclosed space per 0.3-0.5 oz. (8.4 - 14.2 g) of powder (300-500 g/m<sup>3</sup>).

For wet application use 0.5-2% by weight. VpCI-308 is water soluble.

### METHOD OF APPLICATION

Apply powder by dusting, fogging or sprinkling. After application simply cover, close, or seal the interior cavity or void. VpCI-308 is also water soluble and can be used in wet applications.

Fogging is easily achieved with a low pressure air hose and sandblast cup, or converted wet-dry vacuum. Large, conventional sandblasting systems can also be used.

### Method of removal

When required VpCI-308 in powder form can be removed by using blown air or by a water rinse. Typically, when applied in aqueous form the product does not require removal.



## METALS PROTECTED

- Carbon steel
- Stainless steel
- Copper
- Brass
- Aluminum
- Cast iron
- Silver
- Galvanized steel
- Tinplate

## TYPICAL PROPERTIES

Appearance White to off-white powder  
pH 6-7 (1% aqueous)

## PACKAGING AND STORAGE

VpCI-308 is available in 5 pound (2.3 kg), 50 pound (23 kg), and 100 pound (45 kg) lined drums. Store in a sealed container in a dry warehouse avoiding direct exposure to sunlight, with temperature not exceeding 150°F (65°C). Shelf life is up to 24 months.

## PRECAUTIONS

• Caking of powder may occur when it is exposed to moisture and then dried. The likelihood of this is increased when powder is exposed to high heat and multiple wet/dry cycles. When powder gets caked, baked, and hardened it may require removal by mechanical means or by aggressive acid cleaning. To avoid caking of powder do not over apply or unevenly disperse the dry powder. In aqueous applications make sure the powder has been totally dissolved before using.

• Powder is not soluble in hydrocarbon fluids. Rinse powder from vessels before adding hydrocarbon fluids.

• Powder should be removed prior to high temperature processing. Before welding, powder should be removed from the weld area - at least 5-10 inches on each side from the weld point.

## 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

## LIMITED WARRANTY

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

Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec 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 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 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 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 CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**



Distributed by:

4119 White Bear Parkway, St. Paul, MN 55110 USA  
Phone (651) 429-1100, Fax (651) 429-1122  
Toll Free (800) 4-CORTEC, E-mail [info@cortecvci.com](mailto:info@cortecvci.com)  
Internet <http://www.CortecVCI.com>

printed on recycled paper  100% post consumer  
Revised 3/10/08. Cortec Corporation 2004-2008. All rights reserved. Supersedes: 7/12/07.

© 2004-2008, Cortec Corporation. All Rights Reserved. Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited.