



**CORROSION INHIBITING VpCI® POWDERS**



# VpCI®-608 Powder

## Corrosion Inhibiting VpCI System for Storage Tank Bottoms



### PRODUCT DESCRIPTION

VpCI-608 is a Vapor phase Corrosion Inhibitor powder for corrosion protection of ferrous metals in recessed areas, interior cavities, and voids; such as double bottom in storage tanks.

VpCI-608 provides an extremely efficient dry or slurry method to protect metals within an enclosed space. The VpCI vaporizes and adsorbs on all metal surfaces, reaching all exposed areas including recessed sections and interior cavities.

### FEATURES

- Works with or without cathodic protection
- Does not contain phosphates, nitrites, or heavy metals
- Provides continuous protection
- Provides monomolecular inhibiting layer
- Vapor phase inhibiting action protects inaccessible and recessed surfaces
- Protected products can be shipped to customers without removing powder
- If VpCI layer is disturbed, the layer is replenished by continuous vapor redeposition
- Little or no surface preparation is required
- Prevents further corrosion of pre-coated and painted surfaces

- Easy to apply
- VpCI layer does not need to be removed prior to processing or use
- Easily removed by air gun or water
- Accepted by Florida DEP (Department of Environmental Protection) as an alternate procedure to cathodic protection

### APPLICATIONS

- Double bottom of storage tanks floors

### METHOD OF APPLICATION

#### New Tanks & Floor Replacement

After tank pad construction is completed, VpCI-608 powder should be applied at the rate of 2.5-3.5 Kg/10m<sup>2</sup> (5-7 lbs/100ft<sup>2</sup>). It should be spread evenly onto the tank pad. The floor plates can then be fabricated as normal. The VpCI slowly distributes itself uniformly throughout the base. At welds a small amount vaporizes, but condenses after cooling of the metal.

In the case of a concrete tank pad, VpCI-608 can be applied on the surface, or a modified form can be mixed into the wet concrete before it is poured.

#### Existing Tanks

1. Application of VpCIs in a powder form at the tank floor - tank pad interface.
2. Pumping VpCI as highly concentrated slurry into volume between a tank floor and a lower floor or containment liner.

Consult Cortec for turn-key projects.



## DOSAGE

2-4 lbs/100ft<sup>2</sup> (1-2 kg/10 m<sup>2</sup>)

## LENGTH OF PROTECTION

After initial treatment reapplication required within 5 years.

## PACKAGING AND STORAGE

VpCI-608 is available in 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.

## METALS PROTECTED

- Carbon steel
- Stainless steel
- Aluminum

## TYPICAL PROPERTIES

### VpCI-608

Appearance	White to off-white powder
pH	6.2-7.6 (1% aqueous)

Note: This product contains silica and should not be used for steam boilers.

Please contact a Cortec Corporation for alternative products for silica sensitive applications.

## PRECAUTIONS

- Do not use on copper, copper-based alloys, and other soft yellow metals. Compatibility with non-metallics should be evaluated.
- 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 requires removal by mechanical means or by aggressive acid clean. To avoid caking of powder do not over apply or unevenly disperse the dry powder. In aqueous applications make sure powder has been dissolved before using.
- Powder is not soluble in hydrocarbon fluids. Rinse powder from vessels before adding hydrocarbon fluids.
- Powder should be removed from the area on each side of weld before welding or other high temperature processing.

## 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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