



NEWS ALERT

Ten Year Patent Anniversary Underscores Cortec's Leadership in Corrosion Technology



This year marks the 10th anniversary of one of many patents distinguishing Cortec® as the industry's technology leader.

In 2007, Cortec® was granted a US patent that covers VpCI®-608, a Vapor phase Corrosion Inhibitor (VCI) containing product designed specifically to work in conjunction with Cathodic Protection (CP). This was an important breakthrough for protecting storage tank bottoms from corrosion; because, although VCIs promised to solve a significant deficiency of CP, not all VCI products are compatible with CP.



CP in the form of a sacrificial anode or an impressed current is often used to protect the bottoms of aboveground storage tanks from corroding and eventually leaking. However, variations in the floor of the tanks, such as irregularities caused by uneven bending of the tank bottom as the tank is filled or emptied, may limit the effectiveness of the CP by leaving certain areas out of reach of the CP current delivered through the tank base.

In answer to these problems, Cortec® developed VpCI®-608, a VCI product that would work in conjunction with CP. VpCI®-608 works synergistically with CP to provide enhanced protection of the storage tank bottom from corrosion. It also protects against corrosion when CP is absent.

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 the protection of storage tank bottoms in industrial settings, refineries, chemical plants, and similar facilities. It is designed to protect the bottom of storage tanks from corrosion.

FEATURES

- Works with or without cathodic protection
- Does not contain sacrificial anodes, or heavy metals
- Provides excellent protection
- Provides excellent protection including tanks
- Highly effective in protecting storage tanks, refineries, and chemical plants
- Prevents products from being shipped to customers without necessary protection
- If VpCI layer is disturbed, the layer is replenished by continuous vapor migration
- Little or no surface preparation is required
- Provides further corrosion protection and prevents surface rust
- Easy to apply

METHOD OF APPLICATION
This data sheet describes the application of VpCI®-608 powder to the bottom of storage tanks. VpCI®-608 powder should be used at the rate of 2.0-2.5 kg/m² (0.5-0.6 lb/ft²). It should be applied evenly across the tank floor. The layer should not be interrupted or uneven. The VpCI®-608 powder should be applied to the bottom of the tank in small amount increments, but continue after each of the applications.

DISPENSING
1. Application of VpCI®-608 is a powder form of the tank floor - tank pad application.
2. Applying VpCI®-608 as a highly concentrated slurry into existing gaps in the floor and a flow from the same area.

Contact Cortec for further details.

DISPENSING
1. If VpCI layer is disturbed, the layer is replenished by continuous vapor migration.
2. Little or no surface preparation is required.
3. Provides further corrosion protection and prevents surface rust.
4. Easy to apply.

For new construction, VpCI®-608 can be applied as a powder on the tank pad or added in a modified form to wet concrete being poured for the pad. On existing tanks, it can be injected as a highly concentrated slurry beneath the tank floor. The VCIs then vaporize and adsorb on metal surfaces, forming a protective molecular layer on the tank bottom even in areas that are difficult to reach. This additional protection helps safeguard locations that may have been missed by CP, and it continues protecting the tank bottom if the CP system fails.

By developing a VCI product that works synergistically with CP to provide enhanced protection, Cortec® has made an important discovery to help owners of aboveground storage tanks preserve their assets and counteract detrimental tank leakage. The patent is yet another factor in distinguishing Cortec® as the global leader in Vapor phase Corrosion Inhibitor Technology.

Cortec® Corporation is the global leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies for the Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001 and ISO 14001 Certified, and ISO 17025 Accredited.

