



# CorroLogic® VpCI® Filler, Patented

## US Patent 9,518,328 - Additional Patents Pending



### PRODUCT DESCRIPTION

CorroLogic® VpCI® Filler is a custom designed 2-part product developed to fill the inside of closed environments such as pipeline casings and the inside of tubular tower structures, etc. in order to control corrosion for long time periods. The product contains a unique blend of Cortec® Vapor phase Corrosion Inhibitor (VpCI®) technology while also providing resistance to bacterial corrosion. The filler also prevents the infiltration of air and water inside the filled structures.

CorroLogic® VpCI® Filler is a 2-part system consisting of a liquid VpCI concentrate and a powder gelling agent. The liquid VpCI® component (Part A) can be diluted on-site to the appropriate concentration. The powder gelling agent (Part B) is added just prior to application and causes an increase in viscosity and ultimately gel formation over a pre-determined time period.

### FEATURES

- Creates a monomolecular inhibiting layer on metal surface
- Provides long-term continuous protection from corrosion
- Provides liquid, vapor-phase, and interface protection
- Complies with NACE Standard SP0208-2008, from Classes of Rust Preventatives referenced in Mothballing Manual
- Meets requirements of NACE SP0200-2014 Standard Practice: Steel Cased Pipeline Practices
- Designed to migrate under disbonded coatings and provide corrosion protection on the metal surface

- Corrosion rate monitoring systems are available to measure the effectiveness of the filler
- Non-flammable
- Non-toxic, nitrite-, and phosphate-free
- Environmentally friendly
- Made of biodegradable materials
- Resists biological attacks

### ADVANTAGES

- Vapor-phase inhibiting action protects inaccessible and recessed surfaces
- If the filled space is subjected to moisture or outside air infiltration, the molecular layer is replenished by continuous vapor redeposition
- Little or no surface preparation is required
- Prevents future corrosion of coated and painted surfaces
- Viscosity and setup time is controllable
- Provides economical protection from corrosion and reduced shipping costs compared to other filler products
- Product can be removed by washing it off the metal surface

### TYPICAL APPLICATIONS

- Fill the interstitial spaces inside pipeline casings to mitigate the corrosion of the carrier pipe and the inside of the casing pipe
- Fill the inside of tower support structures to mitigate internal corrosion
- Fill other tubular structures, pipes, and vessels to mitigate internal corrosion

### METHOD OF APPLICATION

CorroLogic® VpCI® Filler is applied by adding the liquid VpCI® concentrate to water in a mixing tank, thoroughly blending, then adding a controlled quantity of the powder gelling agent into the liquid stream as it is discharged from the mixing tank. The CorroLogic® VpCI® Filler is then pumped into the structure until



it is filled to the desired level. After application, the CorroLogic® VpCI® Filler will setup and gel over a predetermined period of time. Contact a Cortec® representative for the recommended mix ratio.

## TYPICAL PROPERTIES

### Part A-VpCI® liquid

Appearance	Hazy tan liquid
pH	9.6-10 (Neat)
Non-volatile Content	10-15%
Density	8.6-8.8 lb/gal (1.03-1.05 kg/l)

### Part B-Gelling Agent

Appearance	Tan to off-white powder
pH	6-8.5 (2% water)

## PACKAGING AND STORAGE

Part A is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, and bulk. Store in a heated warehouse to avoid freezing.

Part B is available in 50 pound (23 kg) and 100 pound (45kg) moisture barrier-lined fiber drums. Store in a sealed container in a dry warehouse, and avoid direct exposure to sunlight with temperatures not exceeding 150°F (65°C).

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

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