

## CORROSION INHIBITING VpCI® POWDERS

# EcoPouch®<sup>®</sup>, Powered by Nano-VpCI®<sup>®</sup> Patented US #8,800,224



## PRODUCT DESCRIPTION

EcoPouch® contains VpCI®-609 powder for corrosion protection of ferrous metals and aluminum. The pouches are constructed from breathable Tyvek®, which allows the VpCI® molecules to be emitted through the membrane, and form a molecular layer on metal surfaces providing corrosion protection.

EcoPouch® is easy to use: there are no chemical concentrations to calculate and no need for special equipment for application; just determine the number of pouches required per unit space. EcoPouch® provides a clean method for corrosion protection.

EcoPouch® is available as individually cut pouches, and each pouch protects up to 35ft<sup>3</sup>. Custom sizes and constructions are also available.

## FEATURES

- Creates inhibiting layer on metal surface
- Provides continuous long term protection for various applications
- Does not contain nitrites, phosphates, or heavy metals

## ADVANTAGES

- Vapor-phase inhibiting action protects inaccessible and recessed surfaces
- Protected products can be shipped directly to customers; no need to remove protective VpCI® film after arrival, just remove pouch
- If the VpCI® layer is disturbed by moisture or the opening of an enclosed space, the layer is replenished by continuous vapor redeposition
- Little or no surface preparation is required
- Prevents future corrosion of precoated and painted surfaces
- Clean and easy to use

## TYPICAL USES

- Tubular structures, pipes, and vessels
- Internal surfaces of compressors, turbines, engines, tanks, boilers, heat exchangers
- Steam condensate lines, closed circuit heating, and cooling systems
- Corrosion protection of equipment after hydrostatic testing
- Parts, components, and completed assemblies during shipping and storage
- Voids, cavities, and tanks
- Double bottom storage tank floors

## TOXICOLOGICAL TESTING RESULTS OF VpCI®-609 (Performed by Nortech A.S. (Norway))\*

- Biodegradability: 100% biodegradable in marine environment, rapidly degradable substance (OECD\*\* 306, BOD 28 Marine test)
- Toxicity: Very low (Algae test EC-50=240 mg/L)
- Bioaccumulation potential: none (OECD Guideline 117)

\*Testing performed in accordance with Oslo-Paris commission protocol

\*\*Organization for Economic Co-Operation and Development

## TYPICAL PROPERTIES

Form	Tyvek® breathable pouch
Appearance	White with green printing
Dimensions	Each pouch is 6" W x 10" L x 0.5" H (15.3cm x 25.4cm x 1.3cm)

## METALS PROTECTED

- Carbon steel
- Mild steel
- Stainless steel
- Other ferrous metals
- Aluminum

## METHOD OF APPLICATION

Determine the number of pouches required based upon the volume of space needing protection. Each pouch protects up to 1 m<sup>3</sup> (35 ft<sup>3</sup>). Evenly distribute pouches throughout the space and close or seal.

Custom sizes and constructions also available. Please contact a Cortec® Representative for more information.

## PRECAUTIONS

Do not use on copper, copper-based alloys, and other soft yellow metals. Compatibility with non-metals should be evaluated.

**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**

## PACKAGING AND STORAGE

EcoPouches are available as 50 units per carton. Do not store in conditions above 150°F (65°C). Close cartons between uses. The shelf life of unopened cartons of EcoPouches is up to 24 months.

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