HIGH PERFORMANCE VpCI® PACKAGING

VpCI®-143 Paper Emitters, Patented

PRODUCT DESCRIPTION

Cortec VpCI-143 Paper Emitters are a convenient and cost effective solution to corrosion problems. They provide superior corrosion protection for both ferrous and non-ferrous metals. In addition, Cortec VpCI-143 Paper Emitters are fully recyclable/ repulpable. They can be recycled into other types of paper products such as boxes, cardboard, and other corrugated materials. VpCI-143 Paper Emitters are environmentally safe, non-toxic, biodegradable; and don't contain any nitrites, phosphates, silicates, or other hazardous compounds.

Cortec VpCI-143 Paper Emitters are made from the highest quality recycled neutral natural kraft linerboard. They are made without the use of chlorine or other chemical bleaching. This eliminates package contamination.

VpCI-143 Paper Emitters are easy to use. There are no chemical concentrations to calculate, no chemical tanks or application systems to maintain. The VpCI coating on the product vaporizes, reaching all metal surfaces to provide complete corrosion protection. The unique inhibiting action of Cortec VpCI forms a very thin and very effective protective layer that does not alter the appearance of products or require removal before further finishing or use. Parts protected with VpCI-143 Paper Emitters can be painted, welded, and soldered. The protective layer does not influence physical properties of most sensitive electrical components, including conductivity and resistance.

TYPICAL APPLICATIONS

Cortec VpCI-143 Paper Emitters are a very convenient way to protect products for storage and shipment.

The typical applications are:

- Industrial metal products: coils, wire reels, plates, bars
- Metalworking: raw and machined forgings, castings, sheet metal work, springs, bearings, fasteners, tube, pipe, nails, etc.
- Finished products: engines, machinery, equipment, tools, hardware, appliances, instruments, motors, etc.
- Electrical and electronic components, controls, etc.

FEATURES

- Economical to use
- Coated 2-sided for fast vaporization and excellent contact protection
- One product for all ferrous and non-ferrous metals.
- Non-toxic. Contains no nitrites, phosphates, silicones, chromates, or other heavy metals
- Fully recyclable, repulpable
- Effective against aggressive environments
- Formed protective layer does not need to be removed prior to further surface finishing or coating application
- Made with natural grade linerboard, eliminates package contamination.
- Continuous protection

METALS PROTECTED

- Carbon Steel
- Stainless Steel
- Galvanized Steel
- Cast Iron
- Aluminum Alloys
- Copper
- Brass (≤30% Zn)
- Solder

CORTEC CORPORATION

METHOD OF APPLICATION

Products should be packaged as soon after cleaning as possible, but completely dried of residual water. Keep the VpCI-143 Paper Emitters as close to the surface of the product as practical, preferably leaving no barrier between the emitters and the metal surface to be protected.

Use approximately 1 emitter 1" x 1" (6.4 cm^2) for every 25 cubic inches (390 cm^3) of void space. For long-term storage of up to ten years, enclose the product (with the emitters) in an airtight package.

Standard Construction: Neutral natural kraft linerboard coated with VpCI material.

TYPICAL PROPERTIES

Property	TAPPI Method	Unit	VpCI-143 Paper Emitters
Base Weight, lbs	T-410	Lbs/1000ft^2 (g/m^2)	42 (205)
Caliper (thickness)	T-411	Mils (µm)	10.5 (270)
Tear-MD	T-411	grams/force	245
Tear-CD	T-41	grams/force	265
Smoothness	T-538	sheffield	220
Smoothness VpCI side	T-538	sheffield	250

CD = Cross Direction
MD = Machine Direction

PACKAGING AND STORAGE

Custom sizes and constructions available upon request, in a 42 lbs./1,000sq. ft. (205 g/m^2) linerboard. Other basis weights are also available.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY SEALED
NOT FOR INTERNAL CONSUMPTION
CONSULT 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:

CORTEC CORPORATION
Environmentally Safe VpCI® MCI® Technologies

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
Internet http://www.CortecVpCI.com

printed on recycled paper 100% post consumer