

# CORTEC® COATED PRODUCTS

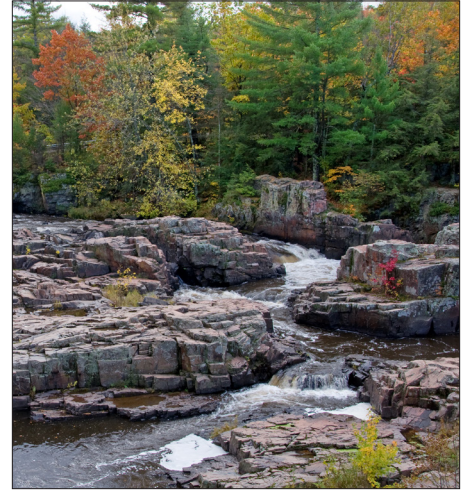




Cortec® Coated Products

# Eau Claire, Wisconsin

Cortec® Coated Products is a 56,000 square foot (5203 m<sup>2</sup>) facility



Cortec® Coated Products is a manufacturer of coated specialty paper, board, and films for the printing and packaging industry. Cortec® Coated Products is based on a culture of high standards, manufacturing high quality coated papers while providing superior service to our customers. Cortec® Coated Products builds on its experience in this specialized field to remain a forerunner in the coated paper industry.

Cortec® Coated Products is a wide web, custom coater of flexible substrates. The true value of Cortec® Coated Products is its custom coating capabilities. We develop materials and offer services that our customers cannot find elsewhere. We invite you to work directly with us on process and product development. With our highly trained staff of scientists and engineers, we are prepared to handle any coating opportunity. Our coater operators have an in-depth understanding of web handling technology. In addition, our converting and compounding facilities offer a unique blend of in-house capabilities unmatched by any competitor.

The goal of Cortec® Coated Products is to develop innovative ideas and creative solutions designed for high-value-added or specialty coated products. Cortec® Coated Products is the logical choice to help you bring product concepts to existence in the shortest possible time.

Our Quality Assurance department performs all testing needed to ensure that your product specifications are met. Cortec® Coated Products uses a rigorous quality management system to ensure consistent quality in all aspects including customer service, product appearance, and performance. Our lab facility offers state-of-the-art testing equipment.

Cortec® Coated Products is committed to providing high quality products and superior service. We are your most dependable source for coated paper products.



# Quality Control

Our state-of-the-art quality control laboratory is fully equipped with an extensive variety of critical testing equipment to evaluate the following:

- Basis Weight
- Brightness
- Caliper
- Curl
- Density
- Gloss
- Moisture
- Opacity
- Optical Density
- Porosity
- Roughness
- Smoothness:
  - Sheffield
  - Parker Print Surf
- Tear



## Facility

### Coating Application Methods

- Two roll metering (forward and reverse roll) for aqueous coatings
- Slot die for hot melt applications
- Back treat station

### Coating Capabilities

- Basis weight: 30-130 lbs/3000 ft<sup>2</sup> (50-210 gsm)
- Roll widths up to 100" (2.54 m)
- Roll weights to 6000 lbs (2720 kg)
- Roll diameter up to 60" (1.52 m)
- Core size: 3" or 6" (7.6 or 15.2 cm)
- Viscosity from 1 to 2000 cP
- Dryer temperature to 450 °F (232 °C)
- Four-zone gas-fired air flotation ovens
- Run speed up to 1200 ft/minute (366 m/min)
- Air knife and Mayer rod for coat weight control



### Slitting/Rewinding Capabilities

- Basis weight: 30-130 lbs/3000 ft<sup>2</sup> (50-210 gsm)
- Roll widths up to 100" (2.54 m)
- Roll weights to 6000 lbs (2720 kg)
- Roll diameter to 50" (1.27 m)
- Core size: 3" or 6" (7.6 or 15.2 cm)
- Run speed up to 600 ft/min (183 m/min)
- Multi cut trimming



### Converting Capabilities

- Basis weight: 30-130 lbs/3000 ft<sup>2</sup> (50-210 gsm)
- Sheeted widths: 3-56" (7.6-142 cm)
- Sheeted lengths: 3-56" (7.6-142 cm)

### Printing

- Basis weight: 30-130 lbs/3000 ft<sup>2</sup> (50-210 gsm)
- One-color
- Run speed up to 600 ft/min (183 m/min)



# Our Products

### Premium Corrosion Inhibiting Papers

Our VpCI® papers are coated with proprietary Vapor phase Corrosion Inhibitors for superior corrosion protection of both ferrous and non-ferrous metal. Made from high quality neutral natural Kraft paper, these paper products do not contain fluorochemicals, nitrites, phosphates, silicones, chromates, or other heavy metals. Cortec® VpCI® papers are effective against aggressive environments including humidity, SO<sub>2</sub>, H<sub>2</sub>S, and galvanic corrosion from dissimilar metals. Most VpCI® papers are fully recyclable and repulpable.

### Barrier Coated Paper

Our fully recyclable/repulpable moisture barrier papers offer excellent alternatives to polyethylene and wax papers. Paper coated with our water-based barrier coatings have displayed moisture barrier properties competitive to those of wax or polyethylene coated papers, with the advantage of being more environmentally friendly and easier to dispose.

### Specialty Products

Our specialty products include highly durable VpCI® coated material for extra tough situations where there may be the risk of puncture or tearing. Other specialties include fully recyclable heat sealable paper for customized packaging needs and linerboard with anti-skid properties.

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### VpCI®-143 Paper Emitters

VpCI®-143 Paper Emitters are fully recyclable/repulpable neutral natural Kraft linerboard squares coated with VpCI® coating on two sides for fast Vapor phase Corrosion Inhibitor protection. These environmentally friendly, biodegradable VpCI® coated linerboard emitters do not contain nitrites, phosphates, silicates, or other hazardous compounds. They can be inserted into a package to provide superior corrosion protection to both ferrous and non-ferrous metals. Use approximately one 1" x 1" (6.45 cm<sup>2</sup>) emitter for every 25 cubic inches (410 cm<sup>3</sup>) of void space needing protection.

### EcoShield® VpCI®-144

EcoShield® VpCI®-144 is premium environmentally friendly moisture barrier corrosion inhibiting paper. EcoShield® VpCI®-144 paper provides superior corrosion protection for ferrous and non-ferrous metals and shows excellent oil and grease resistance. It is environmentally safe and fully recyclable/repulpable. Historically, polyethylene and wax coatings have been used to seal porous paper to provide a moisture barrier and/ or moisture-vapor barrier. When coated this way the resulting paper product is an environmental problem and cannot be recycled through normal channels. EcoShield® VpCI®-144 is coated with a water-based barrier coating and has water vapor barrier properties that make it a competitive, environmentally friendly alternative to polyethylene and wax paper.

### EcoShield® Paper and Linerboard

EcoShield® Paper and Linerboard are packaging products coated with a water-based barrier coating. One of their key features is that they are fully repulpable while displaying moisture barrier properties that make them competitive alternatives to wax or polyethylene coated paper or linerboard.

### EcoShield® VpCI® Linerboard

EcoShield® VpCI® Linerboard is a unique product that combines Cortec's field proven Vapor phase Corrosion Inhibitors with a moisture barrier coating. EcoShield® VpCI® Linerboard can be used to protect metal parts for storage and shipments by interleaving or forming into boxes.

# Our Products

## EcoShield® Heat Sealable Paper

EcoShield® Heat Sealable Paper is a fully repulpable and readily recyclable packaging product coated with a water-based heat sealable adhesive coating. Seams formed from this product when properly sealed (heated with coated sides together) form a bond stronger than the paper. EcoShield® Heat Sealable Paper can be used to manufacture custom-size envelopes, bags, and pouches.

## EcoSonic® ESD Paper powered by Nano VpCI®

EcoSonic® ESD Paper combines corrosion inhibiting and static-dissipative properties to provide a complete packaging paper for your valuable items. This product eliminates static electricity buildup through the use of an environmentally friendly coating made from soybean oil that is coated on the paper. EcoSonic® ESD Paper performs better on the static half-life test than papers with conventional anti-stat coatings. EcoSonic® ESD Paper is biodegradable and fully recyclable/repulpable.

## CorShield® VpCI®-146

CorShield® VpCI®-146 is made from neutral natural Kraft paper coated with Vapor phase Corrosion Inhibitors for superior corrosion protection of both ferrous and non-ferrous metals. The paper is non-hazardous and doesn't contain any nitrites, phosphates, or silicates. It is excellent for single item packaging, interleaving, shipping tube end closures, or sheet liners. Using CorShield® VpCI®-146 is simple and easy; just wrap your products inside and fold the edges of the paper together.

## CorShield® VpCI®-146 Creped Paper

CorShield® VpCI®-146 Creped Paper is premium corrosion inhibiting creped paper that offers a cushioning effect to physically protect delicate parts. It is environmentally safe, biodegradable, fully recyclable/repulpable, and does not contain any nitrites, phosphates, or silicates.

## CorShield® VpCI®-146 Reinforced Paper powered by Nano VpCI®

CorShield® VpCI®-146 Reinforced Paper is premium corrosion inhibiting reinforced paper made from neutral natural Kraft paper. It has excellent tear resistance and does not contain any nitrites, phosphates, silicates, or other hazardous compounds. CorShield® VpCI®-146 Reinforced Paper is effective against aggressive environments including humidity, SO<sub>2</sub>, H<sub>2</sub>S, and galvanic corrosion from dissimilar metals.

## VpCI®-148 Paper

VpCI®-148 is an improved grease resistant corrosion inhibiting paper. In addition to its excellent corrosion inhibiting properties, VpCI®-148 also provides resistance to greases, oils, and solvents. Unlike wax or polycoated papers, which contribute to environmental problems, VpCI®-148 contains a biobased barrier coating and is fully recyclable/repulpable. It is an excellent eco-friendly alternative to traditional grease resistant papers.

## Anti-Skid Linerboard/VpCI® Anti-Skid Linerboard

Cortec® Anti-Skid Linerboard is available in two varieties, with and without VpCI® protection, for applications where non-movement of items is critical. Cortec® VpCI® Anti-Skid Linerboard is designed to prevent corrosion as well as slippage of cases, cartons, and bags up to a twenty degree slide angle depending on application and type of product being stacked. It protects both ferrous and non-ferrous metals. In addition, Anti-Skid Linerboard is non-adhesive and much more durable than traditional alumina or silica treated anti-skid linerboards. Cortec® Anti-Skid Linerboard has many packaging applications due to the high coefficient of friction for "linerboard on linerboard" and "linerboard on metal." This allows the linerboard to be very beneficial when transporting items on pallets by preventing items from falling off and causing damage. It is easy and simple to use as a liner for pallets, shipping containers, container transport conveyers, or floors. Anti-Skid Linerboard is recyclable, repulpable, and nitrite-free.

# Our Products

### Corrosorber® Paper

VpCI® Corrosorber® is a tarnish inhibiting packaging paper specifically for precious metals such as silver, gold, and tin. One side of this unique paper has a special coating that scavenges or seeks out H<sub>2</sub>S gas. The other side of Corrosorber® paper is a tarnish inhibitor that will protect precious metals for up to two years. Many tarnish inhibitors need to be removed after use, but this is not required with Corrosorber®. Corrosorber® paper will in no way affect further processing of the precious metal or affect physical properties such as conductivity or surface resistivity.

### Cor-Pak® Linerboard

Premium corrosion inhibiting linerboard that provides superior corrosion protection for both ferrous and non-ferrous metals.

### Cor-Pak® Fabric LD

Cor-Pak® Fabric LD is a strong wet laid nonwoven fabric composed of a combination of synthetic and cellulosic fibers and enhanced with Cortec's Vapor phase Corrosion Inhibitor Technology. This product can be used in a wide array of applications. In addition to providing excellent corrosion protection, this product provides mechanical protection against scratching, abrasion, and staining that can occur in normal packaging applications. It also provides moisture wicking properties to keep condensation off parts and components during critical packaging applications. Cor-Pak® Fabric LD is an excellent option for the protection of castings and other highly sensitive metals. Common packaging applications include interleaving, wrapping, and lining.

### Cor-Pak® VpCI® Reinforced Paper

Cor-Pak® VpCI® Reinforced Paper is premium corrosion inhibiting white-tinted polycoated reinforced paper made from high quality neutral natural Kraft paper. It has excellent tear resistance and also offers a barrier to water, oil, and grease.

### Cor-Pak® VpCI® Polycoated Paper

Cor-Pak® VpCI® Polycoated Paper provides superior corrosion protection for both ferrous and non-ferrous metals. In addition, it is coated with a polyethylene coating to provide a moisture barrier and/or moisture-vapor barrier for extra protection of packaged metals.

### CorrTainer®

CorrTainer® is a brand of corrugated boxes coated on the inside with Vapor phase Corrosion Inhibitors and a barrier coating that integrates safe multi-metal corrosion protection. CorrTainer® is fully recyclable and repulpable and does not contain nitrites, phosphates, silicates, or banned or restricted substances per RoHS and similar regulations. In many cases, CorrTainer® eliminates the need for a secondary VpCI® packaging liner, making it user friendly and cost effective.

### EcoWeave®

EcoWeave® is a woven polypropylene sheeting enhanced with Vapor phase Corrosion Inhibitors. EcoWeave® offers extra strength, durability, corrosion protection, reusability, and recyclability. It is a unique solution for tough corrosion packaging problems. Many packaging applications require a tear resistant shroud to accommodate the sharp edges of equipment or steel coils during shipment. The woven structure of EcoWeave® will help prevent damage to the shroud, thus preserving the integrity of the VpCI® protection and preventing corrosion from occurring. From raw materials to finished products, EcoWeave® will provide the protection you need for expensive but heavy metal components.



# Additional Capabilities

## Melters and Melt Pump System

With our drum melters/unloaders and melt pump system, 100% solids coatings can be applied with the slot die to a wide variety of substrates. Typical applications include surface treatments, barrier coatings, and hot melt adhesives.

## Super Calender

Our super calender is equipped to handle a broad range of paper widths and basis weights to create a smooth, glossy calendered surface.

## Blending

Our four blending tanks and two large holding tanks offer the convenience of onsite liquid blending of coating materials.

## Rail Spur

Our direct rail access offers opportunities to reduce shipping and receiving costs of bulk paper loads transported over long distances.

## Unwinder



## Printer



## Trimmers/Slitters



## Guillotine



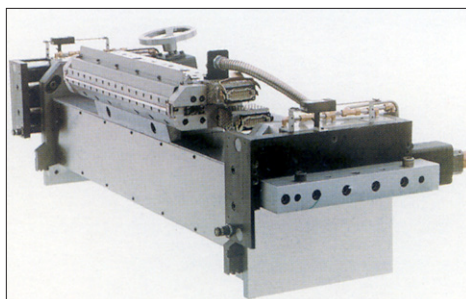
## Sheeter



## Slitter/Rewinder/Converter



## Slot Die



## Coater Rewinder



# Cortec® Corporation



## Quality Management System (ISO 9001 Certified)

### World Class Product Offerings

An innovative producer of leading edge products.

### World Class Customer Service

A positive, long-lasting impression through every link of our company.

### World Class Environmental Commitment

Cortec® commits to continued development of processes and products that are useful, non-hazardous to the environment, and recyclable whenever possible.

### An Ethical and Respectful Company Culture

Respect and treat our colleagues, customers, and vendors as we would our own family members.



## Environmental Management System (ISO 14001 Certified)

Cortec's strong environmental concern is demonstrated in the design and manufacturing of products that protect materials of all kinds from environmental degradation. A strong commitment to produce recyclable products made from sustainable resources has been and will be our future policy. This brochure can be recycled.



## Laboratory Accreditation (ISO/IEC 17025)

Cortec® Laboratories, Inc. is the only lab in our industry that has received ISO/IEC 17025 Certification, which ensures quality in recording and reporting data, as well as calibrating equipment within the laboratory.



## 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 product 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.

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