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PRESS RELEASE**



Skip the Plastic—Use Recyclable Moisture Barrier VCI Paper Instead of Poly Coated!

What happens when VCI (vapor corrosion inhibiting) paper seems to be the best option for a specific metal packaging application except for one thing? A higher risk of moisture raises the question of whether a plastic coating or bag is needed to provide the necessary barrier to packaged goods. However, before making that decision, Cortec® encourages manufacturers and packagers to consider going a step up from standard VCI paper by choosing [EcoShield® VpCI®-144](#), a recyclable barrier paper with Vapor phase Corrosion Inhibitors.



Corrosion Protection + Moisture Barrier Paper

EcoShield® VpCI®-144 is a recyclable packaging paper that prevents rust on metal while simultaneously resisting moisture intrusion. One side is coated with Cortec's proprietary VpCI® Technology, which releases Vapor phase Corrosion Inhibitors that fill the enclosed space and form a protective molecular barrier on the surfaces of the metal part wrapped inside. The opposite side of the paper is coated with a recyclable barrier coating, which gives

EcoShield® VpCI®-144 a shiny, slippery surface that resists moisture by reducing the paper's water vapor transmission rate. Depending on coating thickness, the barrier effects can be comparable to poly coated paper and much superior to waxed paper.

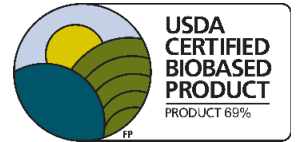
Water Vapor Barrier Properties

	EcoShield® VpCI®-144	Poly Coated Paper	Waxed Paper
WVTR (g/hour•m ²)	0.61-0.69	0.47-0.71	6.5-6.9

Tested according to ASTM E-96, 73 °F (23 °C), 50% RH. Example test ranges are for EcoShield® (45# 3msf natural kraft paper, 10# coating), a comparable polyethylene coated paper (40# 3msf paper, 6# PE coating), and commercial waxed paper (tested according to ASTM F1249).

Replacing Plastic with Biobased Content

In addition to recyclability, another environmental advantage of EcoShield® VpCI®-144 is its status as a USDA Certified Biobased Product. EcoShield® VpCI®-144 contains 69%



USDA certified biobased content, making it an excellent 'circular economy' alternative to plastic bags or plastic-coated paper. US federal agencies and their contractors held to minimum biobased content purchasing requirements can comply in the corrosion preventative category by choosing EcoShield® VpCI®-144. This VCI barrier paper is also a great product to help companies with voluntary green initiatives work toward their goals.

Where to Use EcoShield® VpCI®-144

EcoShield® VpCI®-144 protects many different types of metal, including carbon steel, stainless steel, cast iron, copper, and aluminum. It can be precut into small sheets to individually wrap auto parts for aftermarket use; kept at full width for use as pallet dividers between layers of stacked parts; or made into envelopes for metal instrument strings, sewing needles, and many other flat and thin but moisture- and corrosion-sensitive items. EcoShield® VpCI®-144 is especially ideal for applications in need of corrosion protection, moisture resistance, and cushioning for delicate parts, as the case may be with bearings. Other possible storage and shipping applications include the following:

- Coils
- Wire reels
- Metal plating or bars
- Die castings
- Springs
- Fasteners
- Engines
- Tools
- Hardware



Time to Choose Recyclable Moisture Barrier VCI Paper?

Manufacturers or packagers who realize they need both corrosion protection and a moisture barrier but also want the benefits of cushioning and sustainability should definitely consider EcoShield® VpCI®-144 as a possible packaging solution for their metal parts. If you are facing these concerns with an eye to implementing the circular economy, [contact Cortec® today to discuss how to avoid plastic in your corrosion and moisture barrier packaging selection.](#)

Keywords: *VCI paper, recyclable moisture barrier paper, Cortec, VpCI, alternatives to plastic packaging, poly coated paper, circular economy, packaging for metals, export packaging, recyclable VCI paper*



EcoShield® VpCI®-144 Barrier Paper, Patented with 100% Recyclable Content (USDA Certified Biobased 69%)

DESCRIPTION

EcoShield® VpCI®-144 is the premium recyclable and sustainable moisture barrier cushioning paper in the industry. It is coated with a water-based barrier coating and shows excellent oil and grease resistance. It also contains 69% USDA certified biobased content and is a qualified product under the mandatory federal purchasing initiative of the USDA BioPreferred® Program*.

Historically, polyethylene and wax coatings have been used to seal porous paper to produce 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 paper provides a completely environmentally friendly alternative to polyethylene and wax paper with comparable water vapor barrier properties and fully recyclable biobased content. The types of paper products with all these attributes and other convenient materials.

PACKAGING & STORAGE

Roll stock: 30" x 602 (91.4 cm x 152.9 cm), 48" x 602 (121.9 cm x 152.9 cm). Custom rolls and sheets available in a wide variety of sizes.

To ensure best product performance, store in original packaging, indoors, and use of direct sunlight do not exceed 40°C.

Shelf life: 2 years

HIGH PERFORMANCE VpCI® PACKAGING



FEATURES

- Combines corrosion protection, moisture barrier properties, oil and grease resistance
- Fully recyclable according to Fibre Box Association Voluntary Standard
- Contains no nitrites, phosphates, silicones, chromates, other heavy metals, or toxic products
- One product protects against corrosion of ferrous and non-ferrous metals
- Passes FIPPT 140 (m-1) Recyclability Testing (See Table 1)
- Commercially equivalent to military specifications MIL-P-54206
- Meets MIL-STD-883C environmental test
- Conforms to NACE Standard T42008-2003 and IP6M1-2000
- Packaged parts do not need to be cleaned prior to coating or other surface finishing applications
- Complies with ISO 14001 and the System of Evaluation Accreditation 5012019 (See Table 2)

TYPICAL APPLICATIONS

EcoShield® VpCI®-144 paper can be used to protect products for storage and shipment in a wide variety of applications. Typical applications include:

- Metal production coils, wire reels, plate, bar, etc.
- Metal forgings and die castings, iron and nickel-based forgings and castings
- Metalworking equipment: shear metal rolls, springs, bearings, rollers, rams, punch, punches, shears, etc.
- Finished products: engines, machinery, equipment, tools, hardware, appliances, instruments, motors, etc.
- Electrical and electronic: components, controls, printed circuit boards, etc.

*For more information about the BioPreferred® Program, go to <http://www.usda.gov/biopreferred>.

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Cortec® Corporation is the global leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001:2015, ISO 14001:2015, & ISO/IEC 17025:2017 certified. Cortec® Website: <http://www.cortecvci.com> Phone: 1-800-426-7832 FAX: (651) 429-1122