



## HIGH PERFORMANCE VpCI PACKAGING

# Cor-Pak® VpCI™ Skin Film



### PRODUCT DESCRIPTION

Cor-Pak® VpCI™ Skin Film is the ultimate in skin film for retail showroom display of metal products. Cor-Pak® VpCI™ Skin Film utilizes the latest surlyn based resin in combination with Cortec's patented VpCI™ technology providing a two year corrosion free life with a crystal clear appearance. These two technologies allow Cor-Pak® VpCI™ Skin Film to have the clarity and corrosion inhibition necessary for even the most extreme packaging conditions.

Once packaged, Cor-Pak® VpCI™ Skin Film releases Vapor phase Corrosion Inhibitors (VpCIs™) that create a monomolecular layer of protection on the surface of the metal. Additionally, the superior strength of Cor-Pak® VpCI™ Skin Film provides barrier and mechanical protection while remaining suitable for retail or end-user display.

Metal parts protected with Cor-Pak® VpCI™ Skin Film are easily inspected during shipment and storage. Cleaning, rust removal and other additional steps are not required once the part is removed from the packaging, even if the parts need to be welded, soldered or painted. Cor-Pak® VpCI™ Skin Film leaves the exposed metal surfaces clean and contaminant free.

Cor-Pak® VpCI™ Skin Film can be applied with standard skin packaging equipment and typically provides corrosion protection for up to two years.

### ADVANTAGES

- Immobilizes product for ease of handling and shipping
- Overall cost of skin packaging is much less than dunnage materials used in industrial packaging and requires much less storage space.
- Compared to blister package, total skin packaging cost is generally less, if the product and blister are large in relation to the card.
- Improved heat-seal and hot tack strength
- Low seal initiation temperature
- Provides wider operating windows
- Faster line speeds
- Reduces product deterioration
- Superior overall toughness
- Improved product protection
- Improved package appearance

### METALS PROTECTED

- Carbon Steel
- Stainless Steel
- Iron
- Nickel
- Solder
- Aluminum
- Silver

For metals not specifically listed above, please contact Cortec for Information regarding this protection.

### APPLICATION

Use Cor-Pak® VpCI™ Skin Film for skin packaging (visual carded packaging). The part being packaged becomes the mold over which the heated plastic film or "skin" is drawn by vacuum and heat-sealed to a paperboard card, providing excellent visibility. Skin film is typically used for industrial packaging and for point of purchase packaging and other items to be displayed. The film is excellent for packaging hardware, parts in storage, applications where multiple parts need to be packaged together, door locks, antennae, hand tools, kitchen implements, plumbing accessories, screwdrivers, fasteners, drill bits, sawblades and more.



**CORTEC**  
CORPORATION

Environmentally Safe VCI/MCI® Technologies

IMPORTANT CONSIDERATIONS FOR SKIN PACKAGING SYSTEMS

If paperboard/cardboard is used in direct contact with Cor-Pak® VpCI™ Skin Film, the paperboard/cardboard must be primed for surllyn type films. If coating is used in direct contact with Cor-Pak® VpCI™ Skin Film, the coating must be compatible with surllyn type films. Paperboard must be selected according to caliper, stiffness and other strength characteristics necessary to support the product. High porosity paperboard should be used to allow proper dropdown of the film and good contact with the card.

For additional corrosion inhibitor protection when an adhesive or cohesive is to be used with film, Cortec's M-5120 is recommended to be added to the adhesive/cohesive in the amount of 2 -5% by weight. M-5120 is a multimetal VpCI™ additive for adhesive/cohesive systems.

**PACKAGING AND STORAGE**

Cor-Pak® VpCI™ Skin Film is available in single wound sheeting form from 3 mil (75 microns) to 10 mil (250 microns), with a size range of 24" (61 cm) up to 33" (83.8 cm) maximum. Film should be stored indoors at ambient conditions, sealed in original packaging. Under these conditions, shelf life is up to 24 months.

**Note:** The data contained herein is furnished for information only. We cannot assume responsibility for the results obtained by others over whose methods we have no control. One or more United States or foreign patents or patent applications may cover this product.

**TYPICAL PROPERTIES**

Film Property (2-mil Blown, 3:1 BUR)	Typical Value	Test Method
Ultimate Tensile Strength MD, MPa (psi) TD, MPa (psi)	33.8 (4800) 40.7 (5900)	ASTM D882
Ultimate Elongation MD/TD, %	350/400	ASTM D882
Secant Modulus MD, MPa (psi) TD, MPa (psi)	241 (35,000) 262 (38,000)	ASTM D882
Spencer Impact Strength J/mm (in-lb/mil)	31 (7.0)	ASTM D3420
Dart Drop Strength g/μm (g/mil)	11.8 (300)	ASTM D1709 Method B
Elmerdorf Tear Strength MD, mN/μm (g/mil) TD, mN/μm (g/mil)	6.9 (18) 7.3 (19)	ASTM D1922
Gloss, 20°	75	ASTM D2457
% Haze	3.0	ASTM D1003

**FOR INDUSTRIAL USE ONLY**

**KEEP OUT OF REACH OF CHILDREN**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION**

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