

ATION
USA
FILM
INHIBITOR-PATENT
INHIBITOR



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 mono-molecular 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.

Note: Depending on application and sealing technique used, the film may need surface treatment.



IMPORTANT CONSIDERATIONS FOR SKIN PACKAGING SYSTEMS

The film must be compatible with the heat-seal coating on the paperboard card to insure a fiber-tearing bond or heat seal. 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 VpCl additive for adhesive/cohesive systems.

PACKAGING AND STORAGE

Cor-Pak VpCl Skin Film is available in single wound sheeting form from 2 mil (50 microns) to 10 mil (250 microns), with a size range of 7" (17.78 - 91.44 cm) up to 36" (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 (2Mil Blwon,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 Strenght g/ μ m (g/mil)	11.8 (300)	ASTM D 709 Method B
Elmerdorf Tear Strentght MD, mN/ μ m (g/mil)	6.9 (18) 7.3 (19)	ASTM D1922
Glass 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

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:

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.cortecvci.com>

printed on recycled paper  100% post consumer
Revised 1/21/13. Cortec Corporation 2002-2013. Supersedes: 5/20/11.
Cor-Pak® and VpCl® are trademarks of Cortec Corporation. 2013 © Cortec Corporation. All Rights Reserved.
Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited.
ISO accreditation applies to Cortec's processes only.