



ICT®510-MSF VCI Masking Film

Technical Data Sheet

ZERUST®/EXCOR® ICT®510-MSF VCI Masking Film is a specialized, pressure-sensitive adhesive film crafted for the protection of polished ferrous metal surfaces from scratches, dust, and corrosion during various production stages, as well as throughout storage and shipping. The film is designed to adhere securely to vertical surfaces, maintaining its position firmly until intentionally removed. Upon removal, ICT®510-MSF Masking Film is engineered to leave behind no adhesive residue under normal conditions, ensuring the pristine condition of the metal surface. However, under conditions of high-temperature exposure or direct sunlight, some adhesive residue may remain, which can be easily cleaned off with a suitable solvent.

ICT®510-MSF VCI Masking Film diffuses invisible, odorless, and non-toxic ZERUST® Vapor Corrosion Inhibitors (VCI) that settle onto exposed metal surfaces and voids inside an enclosure. Upon the film’s removal, the VCI will dissipate from the metal surface, allowing painting, welding, or further processing. For outdoor applications, an optional UV inhibitor is available to enhance the durability of the masking film against sunlight degradation. Primarily intended for the protection of ferrous metals such as steel, iron, cast iron, and their alloys, ICT®510-MSF VCI Masking Film combines surface protection with corrosion inhibition for comprehensive care of valuable metal assets.

ZERUST® is the inventor of poly VCI technology, and ZERUST® VCI film has proven its performance and safety with thousands of customers worldwide for over 50 years. It is used to protect valuable metal items for manufacturers in industries such as automotive, agricultural, aerospace, and mining. ZERUST®/EXCOR® offers on-site support and service in more than 70 countries via a network of 21 joint venture partnerships. Check with your ZERUST®/EXCOR® representative for a comprehensive corrosion management solution that is most effective for your metal assets.

Typical Properties

Appearance	Typical color is blue. Additional colors are available upon request. Subject to order minimums.
Substrates	Ferrous protection formulation (steel, iron, cast iron, and its alloys).
Vapor Inhibiting Ability (VIA)	Pass (NACE TM0208)

This data sheet provides general guidelines for operation, application, and removal. Please contact your ZERUST®/EXCOR® account representative for more specific recommendations on your particular operation and conditions.

Operating Summary

- Pack only clean and dry parts.
- Always wear clean and dry gloves when handling the metal parts to protect them from corrosion-causing fingerprints.
- When applying, the temperature of the metal parts should be about the same as the room temperature to avoid condensed moisture.
- Apply the film to the metal surface and add pressure to form a seal.
- Insert additional ZERUST® materials (such as ICT®420-35 VCI Kraft Paper) as interleave for added protection in larger and tightly packed or layered packages.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).

Availability

ZERUST®/EXCOR® ICT®510-MSF VCI Masking Film is available in stock and has non-stock options and additives, such as UV stabilizers and anti-static, subject to minimum order quantities. Contact your ZERUST®/EXCOR® representative for ordering information.

Part Number	Metal Type	Quantity
100-F-00085	Ferrous	10" x 500' x 3 mil Rolls (2/Case)



product information and photos

Protection Info‡

- Indoor[‡] Protects clean metals for up to 6 months[‡] when used correctly.
Outdoor[‡] Not recommended unless ordered with UV stabilizers to prevent the degradation of the masking film.

Storage

- Store in a cool, dry place and away from sunlight in the original packaging for up to 2 years from the date of shipment.

Disposal

- Check on options for recycling and incineration.
- Dispose of in accordance with local, national, and international regulations.

Precautions

- Do not use for outdoor protection unless ordered with UV inhibitors to prevent the degradation of the masking film.
- ICT®510-MSF is designed to leave the metal surface free of adhesive residue when away from direct sunlight and/or heat sources. However, some adhesive residue may be left on the metal surface due to high-temperature exposure, which can be removed by wiping it down with a solvent.
- Safe for people. This product does not pose a health hazard to users due to its classification as an article according to EU REACH, UN GHS, US OSHA HazCom, CLP, and CA WHMIS regulations.
- Refer to the Safety Data Sheet (SDS) for safety information.

‡ DECLARATION

Corrosion protection claims are based on Northern Technologies International Corporation (NTIC) internal laboratory testing performed under controlled parameters on contaminate-free substrates. Real-world application corrosion protection duration on different substrates will vary and depends on factors such as, but not limited to, the application or use, environmental / storage conditions, surface cleanliness, type of substrates, and coating thickness (where applicable). The use of the term "Up to" in reference to time is defined as any time duration from zero up to a specified time frame, but in no event beyond the specified time frame. The use of the term "for years" is based on NTIC's experience with its products but is in no way guaranteed. The use of the term "Up to" in reference to volume is defined as any volume from zero up to a specified volume but in no event beyond the specified volume of protection. It is the customer's / user's obligation to evaluate product performance, corrosion protection duration, safety, and suitability for intended use within the scope advised in the data sheet and to comply with all applicable laws and regulations. **LIMITED WARRANTY/DISCLAIMER** Warranty is limited to the replacement of a product that fails to meet specifications. For full warranty and disclaimer information, visit www.zerust.com/warranty.

©2013-2024 Northern Technologies International Corporation (NTIC). All Rights Reserved. NTIC is the owner of the following trademarks: ActivPak®, Cor Tab®, EXCOR®, Flange Saver®, ICT®, Natur-VCI®, NTI®, Plastabs®, Z-CIS®, Zerion®, ZERUST®, 洁乐特®, Z-PAK® and the Color "Yellow". ABRIGO®, UNICO®, and VALENO® are registered trademarks of EXCOR GmbH, a Joint Venture Partner of NTIC.

A product of:
Northern Technologies
International Corp
4201 Woodland Road
Circle Pines, MN 55014
USA

Phone. +1 763.225.6600
Fax. +1 763.225.6645
sales@zerust.com
www.zerust.com

Rev A

