

## VCI Paper Envelopes

### Technical Data Sheet

ZERUST®/EXCOR® VCI Paper Envelopes provide cost-effective and versatile protection against corrosion damage for music strings in shipping, storage, and at point-of-sale. ZERUST® VCI Paper Envelopes diffuse invisible, odorless, and non-toxic ZERUST® Vapor Corrosion Inhibitors (VCI) that settle onto exposed metal surfaces inside the envelope. Upon removal, the VCI will dissipate from the metal surface, allowing the protected strings to be used as soon as they are removed from the VCI envelope.

Use ZERUST® VCI Paper Envelopes to protect guitar strings and more from rust and corrosion. Engineered for a broad range of applications, ZERUST® VCI Paper Envelopes are available in ferrous, non-ferrous, and multimetal protection formulations and may be imprinted in almost any color, ensuring an ideal packaging solution. Whether in storage, transit, or point-of-sale, ZERUST® VCI Paper Envelopes deliver unparalleled performance.

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. In addition to music string protection, 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 colors are white, yellow, or brown. Additional colors are available upon request. Subject to order minimums.
Substrates	Ferrous, multimetal, and non-ferrous protection are available.
Certifications	Northern Technologies Intl. Corp. holds ISO certificate FM 516997 and operates a quality management system that complies with the requirements of ISO 9001 for the design and manufacturing of corrosion-inhibiting and protective packaging systems.

***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 strings.
- Always wear clean and dry gloves when handling the strings to protect them from corrosion-causing fingerprints.
- When packing, the temperature of the strings should be about the same as the room temperature to avoid condensed moisture.
- Tightly close packages with tape or by folding over. Reseal after every use.
- Avoid placing music strings in direct contact with wood or cardboard (sources of moisture and acid).

### Availability

ZERUST®/EXCOR® VCI Paper Envelopes come in a wide range of custom options. Contact your ZERUST®/EXCOR® representative for ordering information.

Scan QR for more



product information  
and photos

## Protection Info‡

- Indoor† Protects clean music strings for up to 1 year† when used correctly and utilized within one year from receipt.  
Outdoor† Not recommended

## Storage

- Store in a cool, dry place and away from sunlight in the original packaging.
- Optimal storage temperature is < 85°F (29°C) and 50% RH for up to 1 year from the date of shipment.

## Disposal

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

## Precautions

- 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, and CA WHMIS regulations.
- Refer to 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](http://www.zerust.com/warranty).

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