

## **Ze-VERP 5WX**

### **Technical Data Sheet**

Ze-VERP 5WX is low viscosity rust preventive designed for Work-In-Process (WIP) and in-plant/domestic in-transit corrosion protection. Ze-VERP 5WX provides excellent corrosion protection against aggressive environments (such as salt air, high temperatures etc.) for ferrous metals. It leaves a thin waxy film on metal surface which is non-sticky and easily removable.

Ze-VERP 5WX can protect cast or machined parts during shipment, storage and work-in-progress. It protects ferrous metal types against corrosion for up to four months under shelter. For a more robust corrosion protection the components can be placed into Zerust Vapour Corrosion Inhibitor (VCI) packaging products that protects for years and during challenging conditions such as ocean shipments.

Ze-VERP 5WX coated and dried parts are safe to handle. During drying, the solvent completely evaporates, leaving behind a harmless corrosion preventive coating. Once drained thoroughly before packaging, personal protection equipment such as respirator, mask and safety glasses are not required when handling coated parts by the end users. Only clean gloves without lint or talc are recommended to keep metals free of corrosion and contaminants.

### **Typical Properties**

Appearance	Wax based corrosion preventive liquid
Substrates	Ferrous protection
Coverage (dip application)*	Up to 45 m <sup>2</sup> /L
Wet film thickness (WFT)	3-5 µm
Density @ 29.5 °C	0.780 g/mL
Flashpoint	40°C
Dynamic Viscosity @ 25 °C	2 - 3.5 cP

\*The theoretical coverage estimates, based on the stated wet film thicknesses (WFT), should only be used as a guide. These estimates were generated based on internal lab measurements of product coating on flat, smooth 1010 steel stock. Actual coverage data will vary in actual use based on the method of application, type of equipment used, part geometry, surface roughness, drain-off time, drag-out rate, evaporative loss, etc.

***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**

- Ready-to-use rust preventative liquid.
- Typical application temperature: 10 - 40°C in most operations.
- See Safety Data Sheet (SDS) section 7 for Safe handling recommendations.

### **Application Technologies**

- Can be used in immersion, brush, or spray processes.
- To prevent water contamination of the Ze-VERP 5WX solution, a dewatering step is recommended. Contact your dedicated ZERUST®/EXCOR® account representative for more specific recommendations on your particular operation and conditions.

### **Product Removal**

- Ze-VERP 5WX can be removed from the metal surface with the use of compatible ZERUST® AxxaWash™ products, commercial alkaline, or solvent cleaners.

### **Product Control**

- Spray application: do not reuse collected product from spray booths or drip pans.
- Immersion application: for extended dip tank use, particular analysis and viscosity checks are recommended. Please contact your dedicated ZERUST®/EXCOR® account representative for detailed information.

## Availability

ZERUST®/EXCOR® Ze-VERP 5WX is sold as a ready-to-use liquid product. Contact your ZERUST®/EXCOR® representative for ordering information.

Quantity*
35 L Pail
210 L Drum

## Protection Info‡

Indoor (unpackaged)*	Up to 6 months‡
Domestic Transit (w/ ZERUST® VCI packaging)*	Up to 3 years‡
Export Transit (w/ ZERUST® VCI packaging)*	Up to 1 years‡
Salt spray ASTM B117	Up to 48 hours
Compatible with packaging	Yes

## Storage

- Store in a cool, dry place and away from sunlight in the original packaging.
- Optimal storage temperature is 5 – 30°C for up to 1 year from the date of shipment.
- Reseal or close the container cap after each use.

## Disposal

- Dispose of in accordance with local, national, and international regulations.

## Precautions

- Always mix well before use.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).
- Wear personal protective equipment as stipulated in the Safety Data Sheet (SDS).
- Refer to SDS for more 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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