



APPLICATION FOCUS

Who
Crating company responsible for corrosion-free cargo

What
Corrosion management in shipment and storage beyond one year

Why
Replace previous desiccant-barrier method to lower costs and increase protection

How
Zerust® ICT®510-C Film and Vapor Capsules for long-term protection during overseas shipping

Zerust Replaces Desiccant-Barrier Packaging for Corrosion Control and Cost Reduction

An international crating company needed to find a better corrosion solution than their current method of desiccants with sealed barrier packaging. Finding an effective solution was crucial to the company since their worldwide shipments pass through temperature and humidity swings that can accelerate corrosion. The company was unhappy with the desiccant-barrier packaging method because the desiccants became saturated and needed to be replaced at least every six months, increasing material and labor costs. Also, the barrier packaging frequently became punctured and moisture rapidly filled the desiccants making them ineffective. Once the desiccants became saturated, they became a source of corrosion by emitting moisture back into the package.

The Solution

Zerust helped them implement a protection system for five 40' cargo containers, fully loaded with conveyors, controllers and other factory equipment, that were to be shipped from the East Coast to the Middle East. The machinery was wrapped in Zerust ICT510-C Ferrous Film, then heat-sealed and heat-shrunk to provide a tight enclosure. Additional multimetal corrosion protection was provided to the inside of each piece of equipment by Zerust VC6-1 Vapor Capsules. Before shipping they were stored crated outside for over one year awaiting to be loaded. The Zerust system was very effective; all machines arrived at their final destination free of corrosion. Comparing Zerust to the desiccant-barrier packaging method, the company found that Zerust packaging was more effective and reduced costs by 57%.



Five ISO 40' containers loaded with conveyors, controllers and other factory equipment were protected by Zerust for over 1-year.



Equipment is protected externally by Zerust film and internally the electronics are protected by Zerust Vapor Capsules.

Zerust VCI Film and Vapor Capsules completely controlled corrosion and reduced costs by 57% over desiccant-barrier packaging methods.



Use For:

- Export Shipment
- Long Term Storage
- Work In Progress
- Inventory Storage

OTHER PRODUCTS



VCI Kraft Packaging Paper ICT[®]400 Series

Acid-free, pH neutral, smooth and non-flaking corrosion inhibiting paper and poly paper offer short-term corrosion protection for metal parts. Most paper products are recyclable.*



VCI Packaging Films ICT[®]500 Series

Our most widely used series of products. A variety of films offer short or long-term corrosion protection for parts and equipment during storage or shipment. Most film products are recyclable.*



Rust Removers and Cleaners ICT[®]600 Series

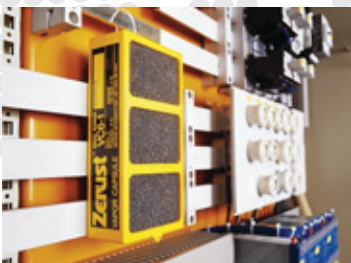
Highly effective rust removers for light to severe rust removal.

All ICT[®]600 series rust removers are non-toxic, non-hazardous and non-corrosive.



Liquid Additives and Coatings ICT[®]700 Series

Temporary corrosion protection for parts in-between production processes, during storage, or for added protection to the ICT[®] 500 series products during ocean shipments.



VCI Vapor Diffusers ICT[®]800 Series

Self-contained, portable products that diffuse Zerust[®] ICT[®] chemicals to protect metals within enclosures, such as tool boxes, electrical boxes, etc.

*Consult your Zerust representative and federal, state and local regulations.

ZERUST[®]  **EXCOR[®]**

www.zerust.com

A product of: Northern Technologies International Corporation

4201 Woodland Road

P.O. Box 69

Circle Pines, MN 55014

Phone: +1 (763) 225-6600

Fax: +1 (763) 225-6645

Email: sales@zerust.com

For more information about the products listed above, please visit www.zerust.com or contact us at +1 (763) 225-6600.

Warranty and Disclaimer Information: We guarantee our products conform to documented quality specifications. Product information subject to change without notice. We make no warranty of any kind expressed or implied as to the effects of use (including, but not limited to, damage or injury). For full warranty and disclaimer information visit, www.zerust.com/warranty.

©2013-2017 Northern Technologies International Corporation (NTIC). All Rights Reserved. NTIC is the owner of the following trademarks: ActivPak[®], Cor-Tab[®], EXCOR[®], Flange Saver[®], ICT[®], NIT[®], Plastabs[®], Z-CIS[®], Zerion[®], ZERUST[®], The ZERUST People[®], and the Color "Yellow". ABRIGO[®], UNICO[®], and VALENO[®] are registered trademarks of EXCOR GmbH, a Joint Venture Partner of NTIC.