



CORROSION MANAGEMENT SOLUTIONS





ARMOR TEAM

ARMOR EXCLUSIVE: Passionate Service

Something you'll discover when working with ARMOR and the corrosion experts featured throughout these pages is their commitment to our oath...To Serve and Preserve™.

*letter from
ARMOR's President*

Products and Service... it's clean, safe and easy or it isn't ARMOR.

Armor Protective Packaging® is an international corrosion management system provider with global reach and a proven, world-class reputation for quality.

ARMOR is also our brand. And our brand is a promise to you. It's a promise that you'll receive the benefits of the industry's cleanest, safest and easiest corrosion management systems for your metals.

Many aspects of your business can become complicated in a hurry. Don't let corrosion be one of them. Over the past several decades we've discovered one important fact that makes each of our customers' individual corrosion challenges exactly the same: there is a solution and it can be simple. We recognize that offering a high-quality, effective product is only half of the job. Providing unsurpassed customer service is just as important and is the backbone of our company's oath To Serve and Preserve™. Allow us the opportunity to deliver the benefits to you that so many other customers have come to rely on since 1979.



*David Yancho
Vice President*

*John Holden
CEO*

*Robin McConnell
President, Technical Director*





ARMOR WRAP[®] paper

ARMOR EXCLUSIVE: Double the Rust Prevention

ARMOR WRAP[®] VCI papers are impregnated on BOTH sides, unlike most competitors' one-sided products. No guess work! Another benefit you'll receive ONLY from ARMOR.



The Industry Standard

For over 35 years, ARMOR WRAP[®] papers have been the industry standard for VCI paper technology. From the best-selling ferrous protection paper in the automotive industry, to our versatile and cutting-edge global paper, 30G, ARMOR offers you more than 12 kinds of VCI impregnated papers for specific packaging applications and metals. All papers are available in cut sheets, rolls and paper bags with wax, poly coating and reinforcement for the most challenging applications.

How does ARMOR VCI Technology work?

Vapor phase corrosion inhibitors (VCI/VPI) are a class of chemical compounds that emit rust inhibiting vapors into an enclosed air space to prevent corrosion on a metal surface. Armor Protective Packaging[®] products utilize our proprietary nanotechnology, essential to keeping your shipments, stored items and even in-process metals corrosion free for years of protection.

part wrapped in ARMOR WRAP[®]



corrosion-free metal part using ARMOR VCI

corroded unprotected metal part



SOLUTIONS

Military Approved since 1983



Silver Shield[™] silver & noble metal protection



Every company touts their customer service. But how many truly build their business around it? To Serve and Preserve[™] is not just a fancy slogan at ARMOR, it's our commitment to you.

Nicole Trierweiler - Business Systems Manager

DID YOU KNOW? More than 90% of the worlds' largest Fortune 500[™] industrial companies rely on Armor Protective Packaging[®] for corrosion prevention, removal and management systems in their operations.



ARMOR POLY[®] film

ARMOR EXCLUSIVE:
Seeing is Believing

Can your VCI supplier prove the presence of active inhibitor in their film? We can! ARMOR's Bright Idea Technology™ offers proof positive.



Cutting-Edge Film Technology

With truly some of the most innovative film technology in the VCI industry, ARMOR has set the standard for high performance protection. ARMOR's recyclable films are transparent and heat sealable, providing you the combined benefit of barrier and anti-corrosion protection in an easy to use form. ARMOR POLY[®] is available in sheeting, bags, tubing, shrink film, zipper closure, wickets, pre-opened bags and more.

Crusader™

Premium film for the toughest applications

The Crusader™ is a tough, co-extruded VCI film for the most demanding corrosion inhibiting applications. It's ideal for export shipments, long-term storage and is reusable.

Defender™

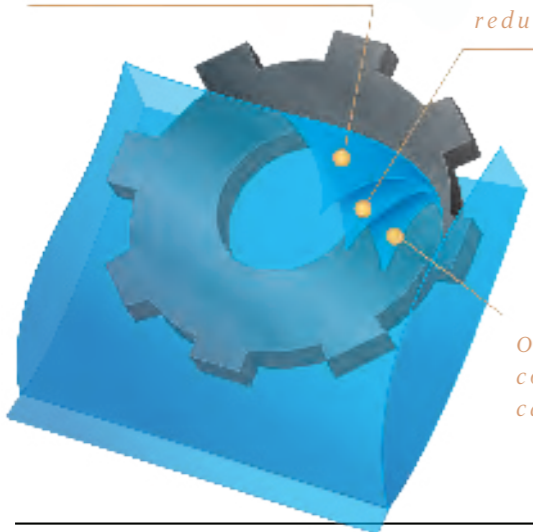
Cost effective film reduces corrosion and costs

The Defender™ is an economical, co-extruded VCI film that provides a high level of protection without the high costs. At 8-12% savings over traditional bags, it's another ARMOR exclusive and further evidence that caring for your products and your budget is our priority.

*Inside Layer:
VCI where you need it most*

*Middle Layer:
barrier material
reduces oxygen*

*Outside Layer:
cost effective
carrier material*



Bright Idea Technology™ allows for glowingly visible proof that VCI is present in our ARMOR POLY[®] under black light.

TECHNICAL



*ARMOR POLY[®]
bulk metal parts
protection*



ARMOR's proprietary VCI Nanotechnology™ carries with it more than 35 years industry experience. With expertise and focus on corrosion management let ARMOR be your brand of choice.

Wes Measel -
Operations & Product Manager



ARMOR SHIELD®

ARMOR EXCLUSIVE: In-Stock Program

ARMOR offers the largest selection of immediately available stock products in the industry. Just-In-Time is an industry reality, that's why ARMOR has a solution waiting for you.

Banding Film



Innovative Meets Practical

Our SHIELD® products line is a comprehensive collection of innovative and practical methods for delivering corrosion protection to your parts. All of our SHIELD® products can be customized to meet even the most demanding specifications. From VCI impregnated elastic bonnets to VCI lined fiber tubing to easy-to-use emitting systems, ARMOR has met the need of customer's specific application challenges since 1979. In fact, many of our SHIELD® products today are the result of these challenges!

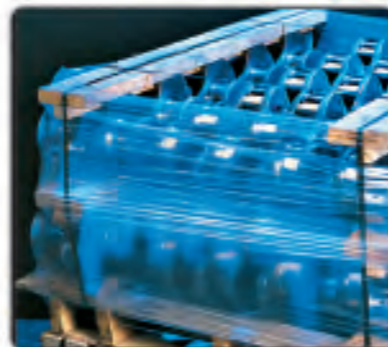
Don't see what you are looking for? Let ARMOR design a custom solution for your packaging application to save you time and money.

Desiccants



Emitting Systems

Stretch Film



Elastic Bonnets



SUPPORT

Our entire team of sales professionals knows corrosion management. We do more than assist you with information and advice, we provide solutions! Challenge us with your corrosion problems.

Candee Williams - Regional Sales Manager



HUMIDITY CONTROL

ARMOR SHIELD® desiccants are drying agents used to reduce humidity inside a closed container. Used in conjunction with ARMOR VCI products, ARMOR SHIELD® desiccants provide an excellent protective environment for long-term storage or export applications.



DRY COAT™ *RP liquid*

ARMOR EXCLUSIVE: Dry-To-The-Touch

Dry Coat™ represents a significant advancement in corrosion prevention technology and replaces hazardous oils, flammable solvents and tacky RPs.

Perfect for exposed metal inside an ARMOR POLY® Heat Shrink VCI Film



Dry Coat™ is ideal for small parts in large quantities

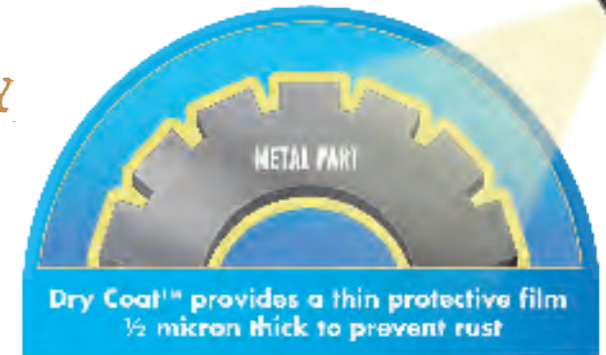
Your Clean, Safe and Easy Solution to Preventing Rust

Dry Coat™ Rust Preventative is a clean and easy rust prevention option ideal for small parts in large quantities (nuts and bolts, fasteners, hardware) or odd-shaped parts that cannot be placed in ARMOR bags or wrap. Dry Coat™ is formulated for ferrous-based metals and is also ideal for export equipment or machinery when used with ARMOR POLY® films.

Dry Coat™ is a water-based liquid that once applied (via dip, spray or flow coat) will provide a clear protective coating. At ambient conditions, Dry Coat™ will dry-to-touch within 30 minutes and will not attract dirt or dust on metal parts such as other sticky or tacky products. Dry Coat™ is non-hazardous; a safe and user-friendly replacement for solvent and oil-based corrosion inhibitors.



QUALITY



Expertise in rust prevention is what you've come to rely on ARMOR for; it is the foundation of our business. Dry Coat™ Rust Preventative is one more option in the ARMOR arsenal of rust prevention products available to our customers.

Selena McKay - Canadian Business Manager





METAL RESCUE™ *bath*

**ARMOR EXCLUSIVE:
Safe on Everything!**

With proper use, Metal Rescue™ will not harm other materials such as wood, glass, rubber, vinyl, paints or plastic. It's "safe on everything except rust"!

Clean part



Remove dirt, grease or contaminants from substrate. Immerse part fully in Metal Rescue™ liquid.

Immerse part



Immersion time ranges from 5 minutes up to 24 hours for heavily rust items. Remove immediately once de-rusted.

Rinse and dry part



Once rust has been removed, rinse and dry thoroughly. Store or ship in ARMOR rust prevention products for best protection.

Clean, Safe and Easy Rust Removal

Fed up with dangerous, large-scale rust remover baths?

Using Metal Rescue™ makes de-rusting tasks easier, cleaner and more efficient. It significantly reduces your product cost and equipment expense and increases safety by eliminating dangerous acids and harsh chemicals from the workplace.

Frustrated with receiving rusted parts?

Put Metal Rescue™ to work in your plant and your frustration ends! Metal Rescue™ cuts transportation, rework, handling and administrative costs because you can do it yourself.

Metal Rescue™ is like a magnet; its water-based formula attracts rust but is safe on everything else.

**Jerry Golebiewski -
Regional Sales Manager**



EXPERTISE

Metal Rescue™ attacks rust by utilizing a water-based synthetic molecule specifically attracted to iron-oxide. Metal Rescue™ removes iron-oxide and holds it in solution, leaving the base part and other materials safely unaffected. The result? The cleanest, safest and easiest way to remove rust in the industry.



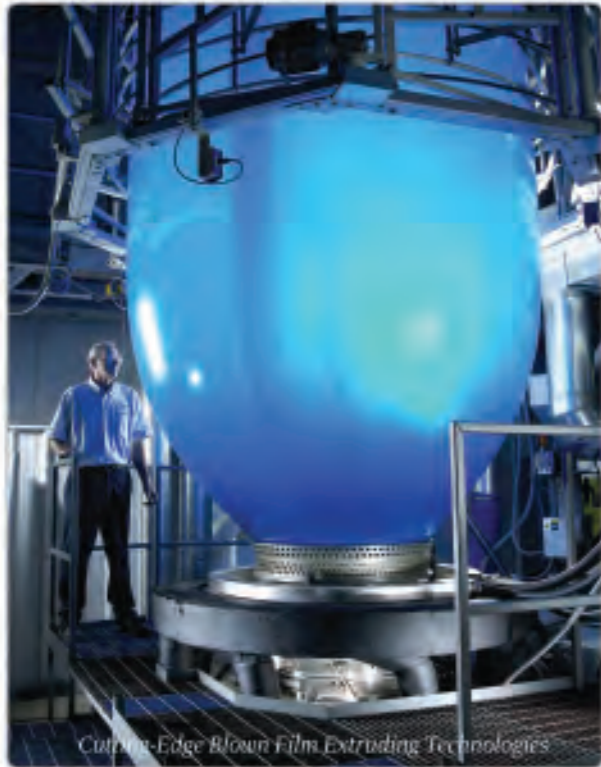
Immersion time ranges from minutes to hours but can be sped up with heat and agitation. Remove immediately once de-rusted.



TECHNICAL

ARMOR EXCLUSIVE: ARMOR Protection Audit

ARMOR offers an exclusive 10-point corrosion reduction audit designed to identify and eliminate your costly rust and corrosion problems. Free of charge to all ARMOR customers!



ARMOR VCI PACKAGING BENEFITS:

ARMOR offers cost-effective protection because our proprietary VCI vapors replenish inside each package. ARMOR products are easy to apply: no grease, messy oils or surface preparation and no need to remove VCI protection before using or welding products.

What Causes Corrosion?

Corrosion is an electro-chemical process and will not take place without a conducting solution. The solution is called an electrolyte, and it is caused by water, rain, moisture and humidity. A relative humidity of 65% forms electrolytes which lead to corrosion.

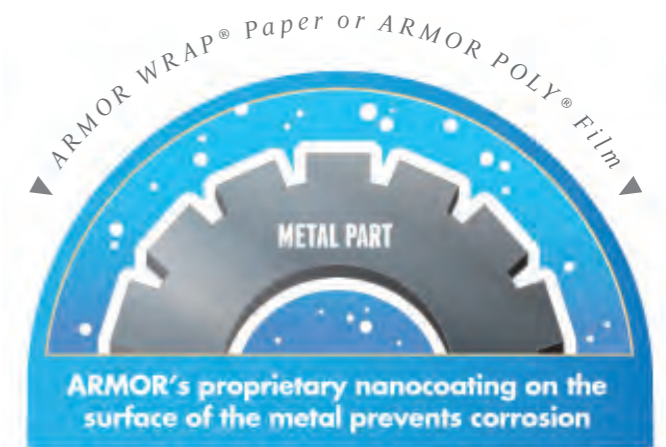
What is VCI?

VCI is an acronym for vapor/volatile corrosion inhibitor. VCI chemicals are a class of corrosion inhibiting compounds with sufficient vapor pressure to release compound molecules into the air. All ARMOR VCI Nanotechnology™ products are both vapor phase and contact phase inhibitors.

Charles Phillips
Technical Support Chemist



VCI NANOTECHNOLOGY™



ARMOR's Proprietary Nanotechnology

ARMOR has engineered highly specialized corrosion inhibitors based on ionic salts. Our packaging materials are infused with the corrosion inhibitors, carrying them into the packaging environment. In the presence of moisture the salts dissolve to form ions, permeating the packaging environment with corrosion inhibitors. The inhibiting ions are attracted to and deposit on metallic surfaces displacing moisture in the process and reassociating to form a stable nanocoating only a few molecules thick.



GLOBAL REACH

ARMOR EXCLUSIVE: Visionary Thinking

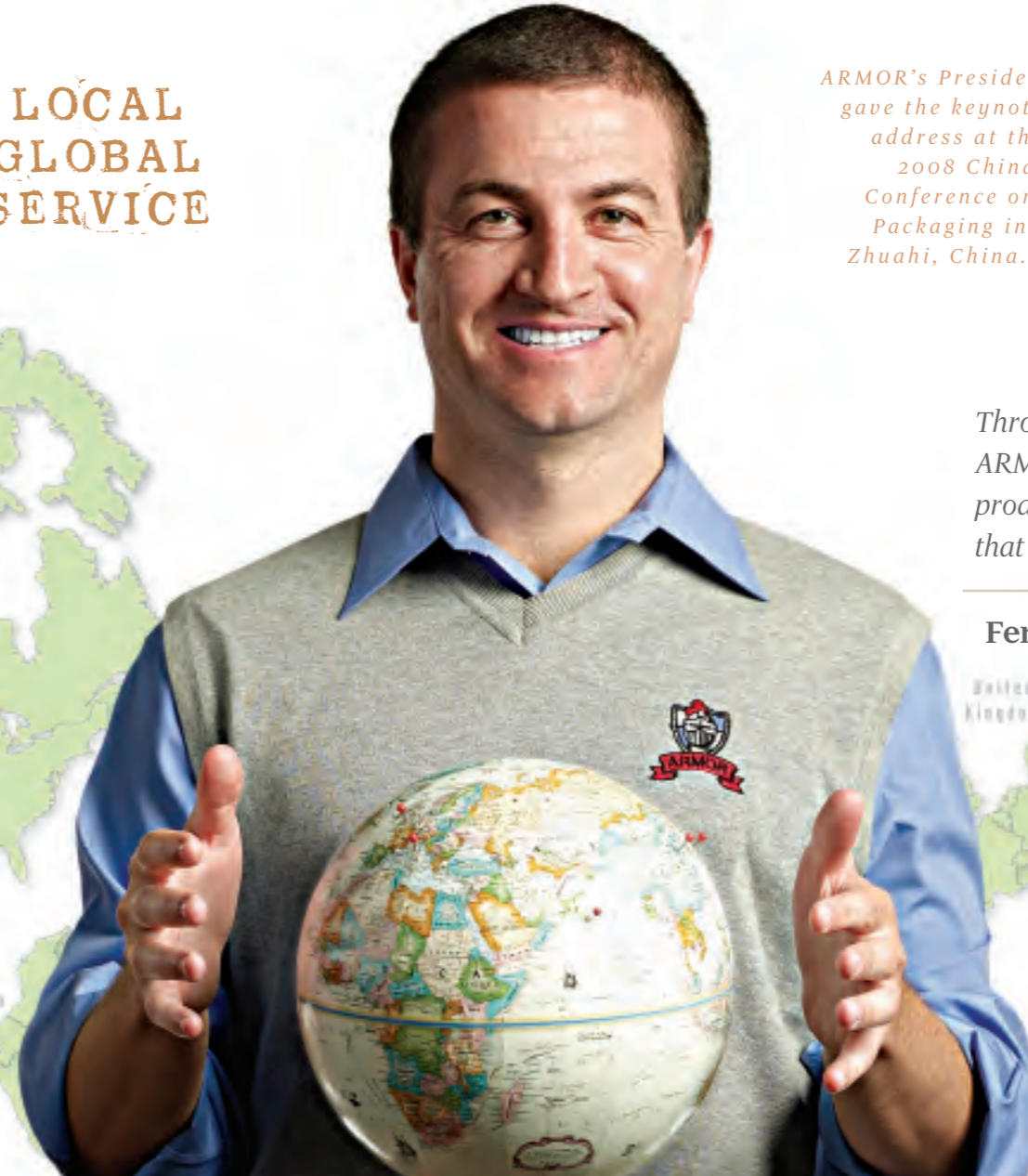
ARMOR's President and Technical Director, Robin McConnell, currently holds the prestigious honor of being one of two non-Chinese Foreign Editors of China's "Packaging Engineering" magazine.

On Guard To Serve and Preserve™ with Locations Around the World

Working with ARMOR gives your company the edge it needs to compete in a global economy. With corrosion inhibiting and removal systems that are clean, safe and easy, ARMOR keeps your company doing what you do best: producing metal parts, free from worry about rejects and rust complaints.

With service on four continents and in more than 25 countries, ARMOR is positioned to provide you corrosion management solutions wherever you need them.

LOCAL
GLOBAL
SERVICE



ARMOR's President gave the keynote address at the 2008 China Conference on Packaging in Zhuahi, China.



Through our international network of partners, ARMOR is able to offer our global customers products where they need them with service that is local.

Fernando Longinotti - International Sales Manager



Vice President David Yancho visiting with Asian partners



GREEN TECHNOLOGY

ARMOR EXCLUSIVE: Effective Green Solutions

All ARMOR products are water-based and sustainable. Products like the Defender™ result in a 25% source reduction and cost savings - a win for business and the environment.

ARMOR PRODUCTS: SAFE FOR YOU & THE ENVIRONMENT.

Leaders in Sustainability

Armor Protective Packaging products have been “green” and certainly “sustainable” long before it was the buzz word that it is today. In providing corrosion inhibiting and rust removal products that are clean, safe, and easy to use, ARMOR products provide tremendous environmental and economic benefits while protecting public health, welfare and environment over their full commercial life cycle.



THE 7 R'S
OF SUSTAINABLE CORROSION MANAGEMENT INCLUDE:

- 1. REDUCE OR ELIMINATE**
oils, greases & harmful chemicals
- 2. REMOVE RUST**
in a safe, clean and easy manner
- 3. REDUCE MATERIALS**
combine rust inhibitor & packaging
- 4. RENEWABLE PRODUCTS**
utilize as much as possible
- 5. RECYCLE CONTENT**
reuse and recycle when able
- 6. REVENUE**
must bring economic benefit
- 7. READING (education)**
identify responsible solutions



SUSTAINABLE

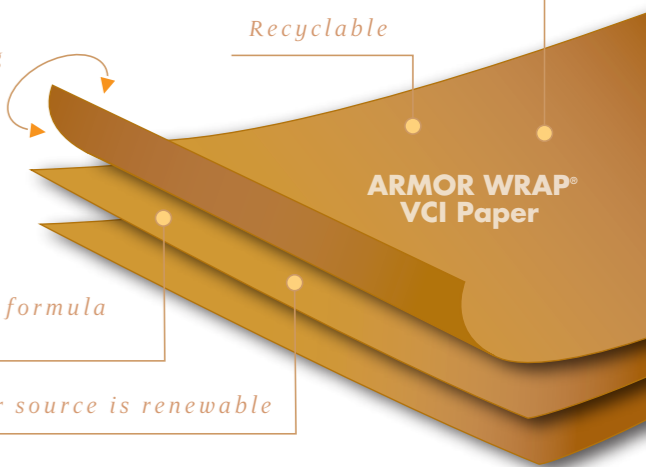
Double-sided VCI coating allows you to use less

Rust inhibitor and packaging in one step

Recyclable

Water-based food-grade formula is safe for environment

Paper source is renewable



Given the importance of the sustainability movement, ARMOR has put forth additional resources and focus on both our product line and the way we do business. Ask your ARMOR representative for more details on the 7 R's of sustainable corrosion management and how they can help your company.

While the primary and initial goals may have been to preserve the environment, going green makes good business sense as well.

Eric York
Industrial Sales Manager



WORKSHOP HERO™

**ARMOR EXCLUSIVE:
Best New Products**

Metal Rescue™ is a five-time “Best New Product” award winner and Dry Coat™ a two-time winner at SEMA & AAPEX shows in Las Vegas.

Taking the “Work” Out of Your Workshop

Workshop Hero™, the consumer division of Armor Protective Packaging®, is a cutting-edge line of rust preventative and rust removal products designed to take the “work” out of workshop! Workshop Hero™ products Metal Rescue™ Rust Remover Bath and Dry Coat™ Rust Preventative are clean, safe, easy to use and are built on ARMOR’s foundation of more than 35-year history in providing expert corrosion management products and services to Fortune 500™ companies all over the world. Whether your workshop is a garage, a potting shed or a workbench in your “man cave”, the Workshop Hero™ line of products will take the “work” out of your workshop!



Like us @: [Facebook.com/MetalRescue](https://www.facebook.com/MetalRescue)

Follow us @: [Twitter.com/MetalRescue](https://twitter.com/MetalRescue)



Metal Rescue™ is safe on everything except rust! Check our website for a retailer near you.



LESS WORK, MORE PLAY

Metal Rescue™ and Dry Coat™-strong enough for industry yet safe enough for the home consumer.

Kristin Moore - Account Manager



*Frank Fritz
from History® Channel's
American Pickers*

Workshop Hero™ has teamed up with celebrity Frank Fritz from HISTORY®’s hit TV series American Pickers to serve as its spokesman. Fritz became a fan of Metal Rescue™ and Dry Coat™ after using the products on several items he picked while on the road with American Pickers.



SUPPORT

ARMOR EXCLUSIVE: Company Culture

We think happy people work harder. ARMOR strives each day to maintain a results-driven culture characterized by positive energy and contagious fun.

What else can ARMOR do for you?

We've told you about our passion for service, our clean, safe and easy products and our global reach. But did you know that ARMOR offers a wide range of additional services, free to our customers?

- Accelerated corrosion testing
- Exclusive PROTECTION audit
- Customer-specific inventory programs
- On-site training at your location
- Packaging recommendations
- Free corrosion college

How can I purchase ARMOR products?

ARMOR is sold through industrial distributors. For an authorized ARMOR distributor nearest you, please contact Armor Protective Packaging®:

- www.armorvci.com
- Toll-free 800.365.1117

SIGN UP FOR OUR NEWSLETTER
INFO@ARMORVCI.COM



To support both our channel partners and end users, ARMOR offers a monthly newsletter full of technical articles, success stories and instructional videos.

SERVICE

When you work with ARMOR, you receive the benefit of our team's vast expertise and ability to attack your challenges with a variety of clean, safe solutions.

Julie Eastwood -
Senior Customer Service Representative

ARMOR'S PLEDGE TO YOU

To Serve

- Unsurpassed service
- Expertise in corrosion management
- Global capabilities where you need us

To Preserve

- Products that are clean, safe and easy
- Full spectrum of corrosion prevention and removal products
- Unparalleled quality



ON GUARD TO SERVE & PRESERVE™



*For other locations worldwide,
contact our International
Headquarters*

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