



Corrosion Management Solutions





ARMOR TEAM

WHO IS ARMOR?

- Experts in corrosion management solutions (safe, clean, easy)
 - Vapor Corrosion Inhibitors (VCI) + protective packaging
 - Innovative rust removal technology
- Industry proven track record for over 33 years (est. 1979)
- Headquarters in Michigan (USA) with partnerships worldwide
- Automotive industries' #1 VCI company





ARMOR TEAM

WHO IS ARMOR?

- More than 90% of industrial companies rely on ARMOR
- Awarded one of America's fastest growing private companies
- Fast becoming a top consumer products brand





ARMOR TEAM

PHILOSOPHY & CULTURE

ARMOR'S PLEDGE TO YOU

To Serve

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

To Preserve

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





ARMOR TEAM

ARMOR - India

- ARMOR Protective Packaging India Private Ltd., is having full fledged factory in Chennai.
- Manufacturing unit fully equipped with ability to manufacture customized VCI packaging units and well equipped testing facility
- Distributors in key markets around India for sales and technical support to customers.





ARMOR TEAM

ARMOR PRODUCT LINE



Technology

- ❑ ARMOR's proprietary **AN-OX** VCI nanotechnology carries with it more than 40 years of industry experience.
- ❑ The backbone of our business is our corrosion inhibiting **AN-OX** VCI nanotechnology.





ARMOR WRAP[®] paper

THE ARMOR DIFFERENCE

- ARMOR WRAP[®] is automotive standard
- Coated on BOTH sides
 - Ease of use
 - No mistakes!
- Proven technology
- Military approved
- Recyclable
- Global Standards:
 - MIL-PRF-3420G
 - JIS Z 1535 Class 2
 - FDA approval CTS 2010-5972
 - NACE Std TM0208-2008
 - RoHS Compliant



To Serve
AND
Preserve

ARMOR WRAP[®] paper





ARMOR POLY[®] film

THE ARMOR DIFFERENCE

- ARMOR POLY[®] - performance & value
- ARMOR Defender[™] - cost savings!
- ARMOR Crusader[™] - premium protection
- Global Standards:
 - NACE Std TM0208-2008
 - FDA approval CTS 2010-5972
 - RoHS Compliant



DEFENDER[™] MULTI-LAYER FILM SYSTEM



- **OUTSIDE LAYER:** Low density polyethylene (LDPE) with additives for strength and medium slip for proper feel and tape adhesion.
- **CENTER LAYER:** Proprietary high density blend which provides superior strength and an excellent barrier to elements that cause corrosion - a 150% DECREASE in oxygen transmission (2.5 X barrier protection).
- **INSIDE LAYER:** LDPE with high concentration of multi-metal ARMOR[®] nanotechnology protection, where you need it most.



DEFENDER[™] = Cost Savings



CRUSADER[™] MULTI-LAYER FILM SYSTEM



- **OUTSIDE LAYER :** Low density polyethylene (LDPE) with proprietary additives for superior strength and puncture-resistance and medium slip for proper feel and tape adhesion.
- **CENTER LAYER:** Proprietary high density blend which provides superior strength and an excellent barrier to elements that cause corrosion - a 350% DECREASE in oxygen transmission (5x barrier protection).
- **INSIDE LAYER:** LDPE with high concentration of multi-metal ARMOR[®] nanotechnology protection, and specialty catalyzed polymerization resin for added strength and increased permeability.



1st in industry to utilize co-ex technology for corrosion prevention





ARMOR POLY[®] film





ARMOR POLY[®] film

BRIGHT IDEA TECHNOLOGY™

- End Users have convenient method to confirm VCI in packaging
- Assure supply chain partner incorporated VCI into articles
- Differentiate between similar looking films with/without VCI
- Quality Assurance “quick check”



ARMOR Bright Idea Technology™

- Some people may think that all VCIs are the same...they'd be wrong.
- Can your VCI supplier prove that there is VCI in their film? WE CAN, by means of our patented BRIGHT IDEATECHNOLOGY
- ARMOR's Bright Idea Technology™ is proof positive. ARMOR is the only company, the only brand, with this bright idea.
- This technology helps in poly products to prove the difference between films with and without VCI.





DRY COAT™ liquid

- Rust Prevention: spray or dip
- Dries to the touch!
- Clean. Safe. Easy.
- Indoor protection up to one year
- Non-hazardous, VOC free, water-based
- Removes easily with soap & water





DRY COAT™ *liquid*

TYPICAL APPLICATIONS



Replacing existing
wet/messy RP



Small parts in large quantities



PRODUCT DESCRIPTION



- Desiccants are drying agents used to quickly reduce the humidity inside a closed container to a predetermined lower value and then to maintain the humidity at that lower level for a period of time. ARMOR offers a full variety of packaged desiccants ranging from 10grams to 500 grams (including 1/6 Unit to 32 Unit sizes).
- Primary types of desiccants are **SILICA GEL AND Desiccant Bags DESI PAK®**. Non-toxic.



PRODUCT DETAILS

- Desiccants operate via adsorption, meaning they won't release moisture back out of the desiccant
- The most common desiccant for industrial applications is Clay/Tyvek
- Shelf life of desiccant sealed in its original container is 2 years



Desi Pak® - Bentonite Clay



- DESI PAK® bags are made from various non-woven materials and are available in sizes ranging from 1/6 unit DIN to 32 units DIN and AFNOR equivalents
- DESI PAK® strips are available with different lengths and fill weights. Bags 16 U and 32 U DIN are available with

string. They can be hung on large equipment for transport or storage, or within storage or transport containers.

Available configurations are:

- ❖ Single bags as standard according to DIN/ AFNOR/ MIL
- ❖ Customized bags / Bag strips / Flat blankets
- To insure the high activity of our desiccant bags, they come in a transparent PE shell with 8% RH humidity indicator card that can be easily read from outside.
- As long as the indicator cards color is blue, the desiccant is active. Full activity of the desiccant is only given over a limited period of time (6 – 9 months) and full integrity of packaging. Clay can adsorb up to 30% of its weight in water vapor (at 77°F (25°C) and 80% RH)
- No apparent change in size/shape/texture at full capacity

CLARIANT



To Serve
And
Preserve

ARMOR SHIELD®



SILICA GEL desiccants available in:

- ❖ Standard sizes: 1/4, 1/2, 1, 2, 3, 5, and 10 Units sizes.
- ❖ Tyvek® (heat sealed)
- ❖ GDTII (heat sealed), Meets all Mil Specs for desiccants (MIL-D-3464, Type I & II)
- ❖ Overall, high efficiency and high capacity desiccant
- ❖ Will adsorb about 40% of its weight in water vapor at 100% humidity
- ❖ Better suited than clay for temperatures above 120°F (49°C) (clay may give up moisture rather than pull it in at this temperature)

CLARIANT



To Serve
and
Preserve

ARMOR SHIELD®



Container Dri-II
Bags either with or
without adhesive backing
B012660/26329127656
255 x 145 mm, 125 g
Usage recommendation
40" Container: 60 – 90 pcs.

CLARIANT

Container Dri-II is a line of specially designed cargo desiccants aimed at protecting cargo during shipping by aggressively absorbing moisture from the air. In doing so, Container Dri-II reduces dew point temperature (the temperature at which condensation begins to form, causing “container rain”), keeping cargo safe and dry. The Container -DriR II line includes several configurations to best fit different needs and modes of transport.

Absorption capacity (Approx. 125 g per bag:)
> 400 % or approx. 500 g H₂O per bag at 95 % rel. humidity and 40 °C

ARMOR POSITIONING

Desiccants are commodity items. ARMOR positions itself in the area of desiccants as a full service provider & Promotes CLARIANT products .





METAL RESCUE™

METAL RESCUE™ BASICS

- Bath/Soak
- Clean. Safe. Easy.
- Eliminates rust on steel and iron
- Synthetic molecule attracted only to iron oxide
- Safe on other substrates: metals, rubber, plastics, paint
- Metal can be restored in 5 minutes to 24 hours





METAL RESCUE™

SAFE ON EVERYTHING EXCEPT RUST!

- No gloves required, non-toxic, no odor
- Safe to dispose of in sewer or yard (Biodegradable, Green)
- No equipment required (simple plastic tub or pail)
- Safe on paint, rubber, plastic, metal and you!
- No acids, no alkalis, no solvents- water based



5 Time SEMA Winner!





METAL RESCUE™

3 EASY STEPS





METAL RESCUE™

BEFORE & AFTER



GLOBAL



MRHLE



BOMBARDIER



GLOBAL REACH





ARMOR TEAM

Global Approvals & Endorsements

FORO MOTOR CORPORATION

Fwd ege Engineer, FC8D Upward \6pes \3@)
ARMDR POLY@VCI FILM Baee

- GMAP # D-22642
- Th Approval # 17475S

ARMDR WRAPS VCI PAPER

- TazL;olz>gy Approval # 174752

ARMOR 6HIELW DE6ICCANT

- GMAP # D-256b8
- Toxicolz>gy Approval # 178028

METAL RE6CUE RU6T REME/VER UU ID

- GMAP # B-53329
- Toxicolz>gy Approval # UI

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Armed Supplier # 11-906-11a

IBM CORPORATION

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VOLYONORTH ANERKA

Supplier # D7B7198

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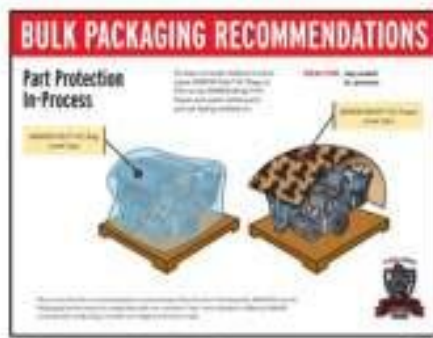
- Cu«znlns Prefaced Pactaplng 6tg>plW
Rz>dvcf/an 6ompo em PucAap/ng s aoda aa Nka//d>«/de ops
- Mctd Rescue Rust Remover Bath Approval MSD6âO15g88





SUPPORT

VALUE-ADDED SERVICES





ARMOR TEAM

WHY ARMOR IS THE RIGHT CHOICE

- To Serve & Preserve™
 - Passionate, loyal, focused
- Proven technology and reputation
 - Approved by major OEM's and Manufacturers
- Motivation the Key
 - ARMOR is motivated by "thinking Big, not being Big".....we think long term in all we do!





ARMOR TEAM

ARMOR INDIA

Armor Protective Packaging India Pvt Ltd., # 74, Venkata Subramani Nagar, Thiruneermalai Road, Chennai-600069.

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On Guard To Serve & Preserve



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Thank you

