



# RUST-X®

REST WITHOUT RUST

## Complete Packaging

& Corrosion Prevention Technology





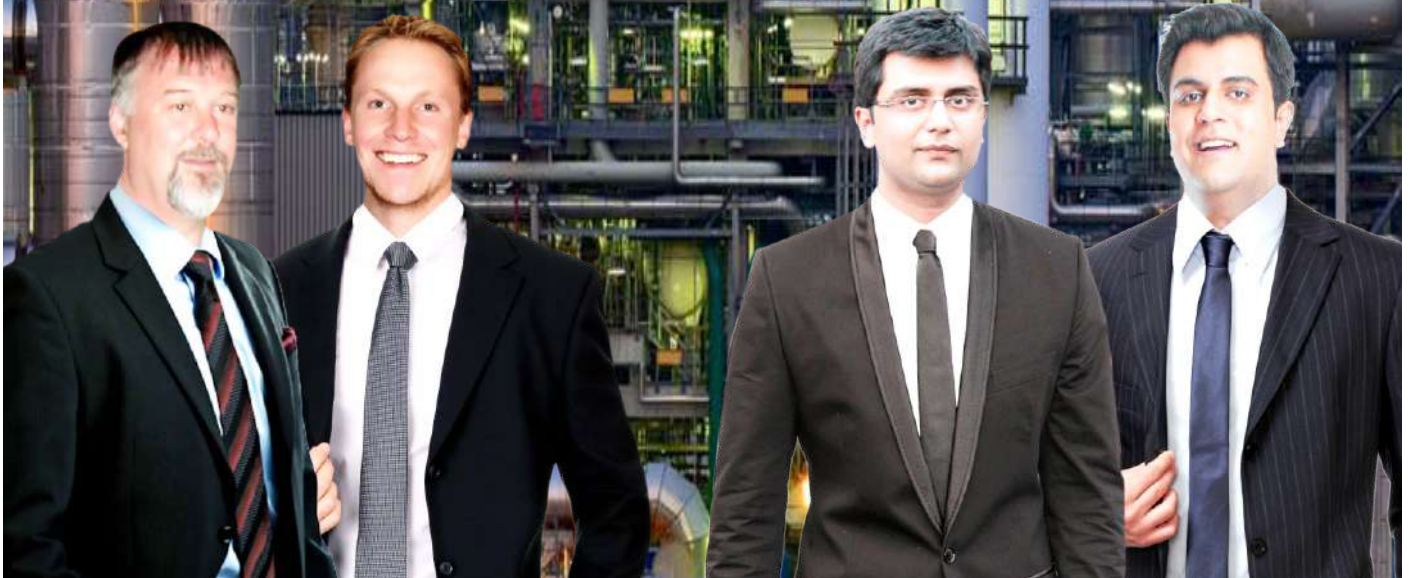
# From the Management

people who **strive for excellence**

**100%**  
VERTICALLY  
INTEGRATED

**World's**  
Largest & Most  
**Modern**  
Infrastructure

**44%**  
GROWTH  
RATES  
YEAR <sub>O</sub> N YEAR



## Our Story



RUST-X is the market leader of Corrosion Prevention Solution globally & manufacturing over 500 products in manufacturing locations in USA, France, Italy, India and China making it a global brand with partners in over 45 countries. Rust-X caters to over 10,000 customers with a presence in all major industrial cities of the world making it possible for the client to utilize our services and use one standard range globally.

The group is in existence for more than 38 years. Hi Tech is the fastest growing Rust Preventives manufacturer in the Indian industry with growth rates of more than 44% year on year for the last 4 years.

Our solutions work for the customer in the first recommendation which is due to our technical knowledge and experience.

Rust-X is the only vertically integrated VCI manufacturer in the industry with inhouse manufacturing of chemicals , masterbatch, films, papers, desiccants, oils and foils. This gives the customer an advantage to rely on Rust-X complete packaging solution ensuring them to Rest Without Rust.

## Certificates



## Snapshot of Products

all products are **made in house**



VCI Paper



VCI Plastics



Steel Mills  
packaging



Industrial  
Lubricants



RP Oils



Coatings



Aerosols



Rust Removers &  
Converters



Metal Working  
Fluids



VCI Powders  
& Chemicals



# RUST-X<sup>®</sup>

**REST WITHOUT RUST**

## Our Brands

and pride

**RUST-X<sup>®</sup>**  
**REST WITHOUT RUST**

 **Fillezy**  
Air Cushion Packaging

 **Keep It Fresh**  
Shelf Life Extension  
of Fruits & Vegetables

 **ZORB-IT**  
Desiccants

 **TUFFPAULIN**  
XLF Films  
Cross Laminated





EVA BAGS



AQUAFLUSH

Washing Chemicals



Humidity Control Packs



Copper Protection



Rust Removers





# Manufacturing Plant



Manufacturing plant for films, papers, desiccants, emitters and warehouse for industrial lubricants



**60,000 sq ft**

**California, USA**



Manufacturing plant for films, papers, desiccants, emitters and warehouse for industrial lubricants



**80,000 sq ft**

**Delhi NCR, India**



Manufacturing plant for films, papers, desiccants, emitters and warehouse for industrial lubricants



**70,000 sq ft**

**Delhi NCR, India**



Manufacturing plant for films, chemicals and industrial lubricants



**80,000 sq ft**

**Mumbai, India**



Manufacturing plant of co extruded films, lubricants, papers, desiccants, emitters and engine oils



**250,000 sq ft**

**Punjab India**

**+ 3 MORE PLANTS INDIA**





## Warehouse/Office

**RUST-X®**  
**REST WITHOUT RUST**

Nordic warehouse for VCI films, papers, desiccants emitters and lubricants.



**40,000 sq ft**

**Nordic Region, Europe**



Manufacturing plant of co extruded films, monolayer films and warehouse for lubricants



**50,000 sq ft**

**Lyon, France**



Manufacturing plant for chemicals and warehouse for films, papers etc.



**35,000 sq ft**

**Australia**



Manufacturing plant for films, papers, desiccants, emitters and warehouse for industrial lubricants



**100,000 sq ft**

**Italy**



Warehouse for films, papers, lubricants and other products for the Middle East



**40,000 sq ft**

**Dubai**

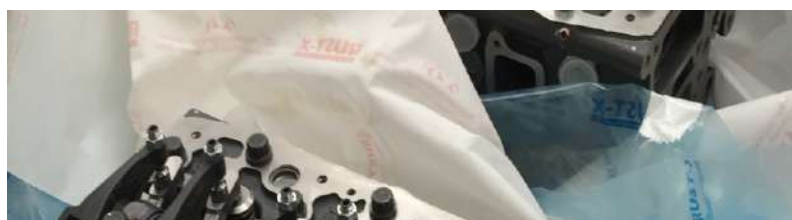






# Our Clients

for whom **we protect and serve**



Over 10,000 clients globally!



## OEM's



## Auto Components



## Steel Mills

Heavy Equipment, Power, Turbines



## Infrastructure







# The Real VCI Test

is in **your hands**, myths of VCI unfolded

## The Real VCI Test

The Razor blade test and the VIA test as listed by NACE and BFSV Germany are the only real VCI's test methods to determine the efficacy of a VCI product.

Ask one of our experts for a test kit today !



# Ask us for Free VCI Test Kit

## VCI SMP TECHNOLOGY

VCI SMP technology passivates the metal's surface as well as deactivates the humidity surrounding the metal components. They have sufficient vapour pressure to evaporate and travel to mix with the humidity and essentially reach the surface of the metal. 20% of the VCI Chemical reacts within 6 hours and balance in 5-15 years

- Physical hydrophobic molecular barrier deposited on surface
- Vapour phase deactivation of moisture
- Passivation of electron flow between anode and cathode
- Regulation of pH

## What is Corrosion?

Corrosion is chemical action which causes destruction of the surface of a material by oxidation or chemical combination. Corrosion Engineering has become an important area of expertise in Engineering Industry.

There are several ways of combating corrosion of which most contemporary, cost effective and advanced, clean and with least environmental and health hazards is the usage of Volatile Corrosion Inhibitors also known as VCI Technology.

## Causes of Corrosion



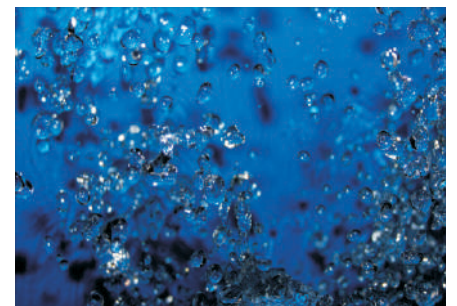
### Container Rain

Changes in temperature during the sail causes sudden evaporation and condensation called as Container rain ranging upto 100% humidity inside container. Acidic sea humidity causes reaction with metal at much faster rate than components lying in factory floor. Corrosion Engineering makes it possible to decide, use and implement a complete system to counteract the adverse sea conditions.

## Plastics are H<sub>2</sub>O Permeable

LDPE, HDPE etc have porosity of water also termed as Water Vapour Transmission Rate (WVTR) to the extent of 4 gms/sqm/24 hours.

To make this full proof chemicals need to be present inside the packaging to continuously react with moisture and neutralize it to inhibit breathing of packaging.



## Humidity in Boxes

Starch present in boxes is hygroscopic. It absorbs moisture present in the atmosphere to a tune of 15-60% of the weight of corrugation. Under ambient conditions, the moisture levels absorbed in corrugation are always more than 15%. Once the temperature in the container rises, the moisture is released to surrounding metal (being cooler).



# VCI PLASTICS

using SMP **VCI Technology**





## VCI Sheets and Rolls

VCI 701



VCI sheets and rolls are available in various sizes and can be used for wrapping large or small components or equipments and for covering corrugation / honeycomb layers.

## VCI Holo Films

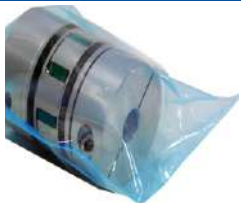
VCI 709



VCI Holographic films have are used in aftermarket spares. A great way to protect parts from counterfeit and brand your product accompanied with VCI.

## VCI 2D Bags

VCI 702



VCI 2 bags are used for the packaging of small components that are further put into pallets or boxes.

## VCI Strength Fabric

VCI 713



VCI Strength Fabric is processed with cross meshed raffia that is laminated with VCI film to provide excellent abrasion protection for heavy metal articles and steel coils.

## VCI 3D Carton Liners

VCI 703G, 703H, 703FL



VCI 3 D Carton Liners are gusseted bags with side folds that are used to protect steel components from effects of moisture. These are available as per the size of the carton in a Gusseted (703 G)

## VCI Stretch Films

VCI 740 / VCI 745



VCI Stretch films are ideal to wrap large machinery, coils or parts that cannot be packed in bags. It has great self healing and arrests influx of moisture

## VCI 3D Pallet Liners

VCI 704G, 704H, 704FL



VCI film formed in the shape of a 3 dimensional bag for easy installation inside pallets or as covers. It is available with flap, without flap and with hood and base.

## VCI Shrink Films

VCI 712 / VCI 714



VCI Shrink films are heat shrinkable films ideal for large equipments that need preservation or have to be transported on top deck of ships.

## VCI Bubble Wrap

VCI 706



VCI bubble wraps are used where impact protection such as dents, scratches are required on the parts during shipment and storage. These can be provided in the form of sheet or in custom sized bags.

## VCI Masking Stickers

VCI 685



VCI Masking stickers can be pasted on metal surface and doesn't leave any residue on metal parts whilst ensure upto 5 years life.

## VCI Zip Lock Bags

VCI 707



VCI Zip Lock bags are used to pack components which need removal and resealing.

These are also used where multiple products are packed in a bag and then need to be used one by one over a longer time period.

## VCI Tuffpaulin

VCI 150



VCI Tuffpaulin is a multilayered cross laminated film with high impact strength and tear resistance with excellent UV properties.



It can be made in the form of bags with customized sizes for covering medium or large equipments, machineries and parts.



# VCI PAPERS

high loading of chemicals **for long life**



## VCI Papers

RUSTX manufactures Super Laminated VCI Papers which have exceptional strength, tear resistance as well as puncture resistance. Volatile Chemicals coated on Natural Kraft Paper can provide protection of up to 10 YEARS in packaged condition when in synergy with RUST-X oils.

Goods wrapped in or protected by RUST-X VCI paper are not impacted by corrosion. RUST-X papers, are very heavily impregnated with the inhibitors released from the protective paper. They have high burst factor to provide better abrasion resistance compared to plastics.

## Properties

- Economical to use
- Dry protection
- Easy to install Protects up to 5 years
- Specially developed for Iron & Aluminum, Copper, Zinc, Chrome and all metals and non metals
- Protects mostly all metal systems
- Easy to use and only needs to be wrapped or placed along with the part to be protected
- Can also interleaved within metal plates or sheets





Product Code	Application	GSM	Color	Type	Protection
VCI 602 ALFE	Ferrous & Aluminum	70	Red	Unlaminated	6-12 months
VCI 603 ALFE	Ferrous & Aluminum	90	Red	Laminated	2 years
VCI 604 MULTIMETAL	CJ, Brass, Zinc, Fe, Al and others	70	Blue	Unlaminated	6-12 months
VCI 605 MULTIMETAL	CJ, Brass, Zinc, Fe, Al and others	90	Blue	Laminated	2 years
VCI 651 MULTIMETAL	CJ, Brass, Zinc, Fe, Al and others	50	Blue	Unlaminated	6-12 months
VCI 652 MULTIMETAL	CJ, Brass, Zinc, Fe, Al and others	70	Blue	Laminated	2 years
VCI 608 COPPERSHIELD	CJ, Brass, Zinc, Fe, Al and others	70	Blue	Unlaminated	6-12 months
VCI 609 COPPERSHIELD	Protection of Copper Wire Spools	90	Blue	Laminated	6-12 months
VCI 631 RX MEDICAL GRADE	Protection of medical devices	55	Blue	Unlaminated	6-12 months
VCI 632 RX MEDICAL GRADE	Protection of medical devices	75	Blue	Laminated	6-12 months
VCI 612 RUSTOFAB (NON WOVEN)	Protection of sharp edged parts	70	Red	Made of PP	12 months
VCI 606 VCI Crepe Paper	Creped paper for heavy parts	120	-	Unlaminated	12 months
VCI 607 VCI Crepe Paper	For heavy parts and steel coils	160	-	Laminated	2 years
VCI 660 VCI Crepe Scrim Paper	For heavy parts and steel coils	165	-	Unlaminated	2 years
VCI 680 VCI HDPE Paper	For 3D bags and steel coils	170-170	4 layers		2 years
VCI 777 VCI CHIPS	PAPERBOARD EMITTERS	800	Blue	Unlaminated	10 years

## Variants



VCI Copper Shield Paper Roll



VCI 50 gsm Paper



VCI ALFE Paper Roll



VCI Scrim Paper



VCI Copper Shield



VCI Multimetal Paper



VCI ALFE Paper



VCI RustoFab  
(non woven)

## Compliance

TL 8135-0002 , MIL PRF 3420 , IS 6263, FSC

biodegradable  
compostable





# VCI LIQUIDS

Complete range of **Dry to touch** oils



1

## **VCI METAL WORKING FLUIDS**

Synthetic, Semi Synthetic and Mineral Oil

2

## **VCI CLEANERS**

Solvent & Water Based Cleaners

3

## **VCI OILS**

Dry, wet and water based

4

## **VCI COATINGS**

Acrylic, Waxy, Bitumen, Oil & Nano

for detailed product literature, please refer to the TDS and SDS from our website or Play Store and Apple Store  
Product performance may vary based on application. It is advised to test the oil before implementation.



# VCI METAL WORKING FLUIDS



VCI Metalworking fluid (MWF) is the name given to a range of oils and other liquids that are used to cool and/or lubricate metal workpieces when they are being machined, ground, milled, etc. MWFs reduce the heat and friction between the cutting tool and the workpiece, and help prevent burning and smoking.

SHARP 11000	SYNTHETIC	GRINDING	3-5%	9-10	IRON & STEEL
SHARP 13000	SEMI-SYNTHETIC	HIGH SPEED MACHINING	3-5%	9-10	IRON & STEEL
ALUCUT 8000	SEMI-SYNTHETIC	HIGH SPEED MACHINING	3-5%	8-10	ALUMINUM
BRASOCUT 4000	SEMI-SYNTHETIC	HIGH SPEED MACHINING	3-5%	8-10	COPPER
SHARP 9000	SEMI-SYNTHETIC	MEDIUM SPEED MACHINING	4-5%	9-10	MULTIMETAL
WS50	MINERAL OIL BASED	LATHE AND LIGHT DUTY MACHINING	5%	9-10	MULTIMETAL
NEATCUT	STRAIGHT	DRILLING	-	-	MULTIMETAL
BROCHX	STRAIGHT	BROACHING	-	-	MULTIMETAL
DRILLX	STRAIGHT	DRILLING MILLING	-	-	MULTIMETAL
FORMX	STRAIGHT	FORMING	-	-	MULTIMETAL
DRAWEZ	STRAIGHT/WATER BASED	DRAWING WIRES	-	-	MULTIMETAL

## Solvent Based Cleaners

RUST-X Cleaning agents are order less and solvent based washing systems have various advantages owing to the fact that they don't have any water present which may later on corrode the components.

Steel components get corroded due to water present in aqueous cleaning systems. Aluminum components develop white rust caused due to presence of water, high-pH deposits, salts, finger marks as well as atmospheric gases.

Product Code	Description	Prevention	Thickness (microns)	Dry time (mins)	Flash Point
QL000	IRON AND STEEL	1 DAY	0	5	95
QL002-AL	ALUMINIUM	1 DAY	0.2	5	95
QL005	IRON AND STEEL	2-7 DAYS	0.5	5	95
QL002-QD	MULTIMETAL	1-2 DAYS	0.5	1	45

## Aqueous Cleaners

Aquaflush is specially designed for achievement of low millipore values on components . Its used in inter operational and final cleaning operations of multi-metal parts and components . It is suitable for use in a wide range of applications of industrial spray and intensive flood wash machines . Aquaflush is particularly recommended where corrosion protection during short term storage is required .

Product Code	Description	pH Value	Conc.	Protection
V CI 14 15 - AQUAFLUSH BIO CLEANER/ DEGREASER WATER BASED BIO LIQUID		8-9	3-8%	2 days
V CI 14 17 POWDER	CLEANER/ DEGREASER POWDER	8-11	2-3%	2-7 days
AQ03	WATER BASED FOR IRON AND STEEL CONC	9-11	2-3%	2 days
AQ04-AL	WATER BASED FOR ALUMINIUM	7-9	3-5%	1-3 days
AQ05	WATER BASED FOR IRON AND STEEL CONC	8-10	5-8%	2 days
AQ 99 / V CI 14 19	WATER BASED FOR IRON AND STEEL CONC	9-11	40-100%	2-7 days
V IBROX	V IBRO CLEANING MEDIA	9-11	3-8%	1 day

# RUST PREVENTIVE - DOMESTIC



Domestic grade RP oils are well suited for inland transportation with short to long term storage . These oils are contact inhibitors which protect the metal from oxidation. These can be of soft film , solvent based or solvent-less type. De-watering ,De-greasing odourless RP oils are available in variety of grades with range of film thicknesses for different end use applications that match customer requirements .

Product Code	Film type	Recommended for	Thickness	Flash point	Indoor protection	Outdoor protection	Dry time	Apply by
135 A   135 C  135 E	DRY	AUTOPARTS	1 3 5	95	2-3	2	2-10	DIP
1001XR  1004 XR	DRY	AUTOPARTS	1 4	95	2-3	2	2-10	DIP
120 A   132 A  145 A	WET	EQUIPMENTS	2 5 10	220	2-3	2	-	DIP/SPRAY/ BRUSH
137 C	DRY	IN PROCESS	300%	95	1-2	2	2-10	DIP
135 AFR	DRY	STEEL MILLS	300%	95	2-6	2	2-10	DIP
1130 AFR	ELECTROSTATIC	STEEL COILS	2-4	220	2-3	2	-	DIP
1336	WATER BASED	IN PROCESS	2-6	-	<1	2	5-10	DIP

# VCI RUST PREVENTIVE - EXPORT

VCI RP oils for export offer corrosion prevention against the most corrosive sea environment during exports. These VCI oils work in vapour phase as well as contact phase which protect the components for longer durations providing longer storage life to the components. These are available in variety of grades with range of film thicknesses in order to achieve desired levels of de-greasing & de-watering, color, protection period, smell washability etc.

Product Code	Film type	Recommended for	Thickness	Flash point	Indoor protection	Outdoor protection	Dry time	Apply by
VCI 135 SUPER DRY EX	DRY	ENGINE PARTS	0.5	95	2-3	5	2-10	DIP
VCI 135 DRY EX			0.75	95	2-3	5	2-10	DIP
VCI 135 A EX   135 CEX   135 EEX	DRY	AUTOPARTS	1 3 5	95	2-3	5	2-10	DIP
VCI 400 AEX DRY A   C  E	DRY	ENGINE PARTS	1 3 5	95	2-3	5	2-10	DIP
VCI 120 A-EX   132 A-EX   145 A-EX	WET	EQUIPMENTS	2 5 10	220	2-3	5	-	DIP/SPRAY/ BRUSH
RUSTX 30   RUSTX 32	WAXY	LARGE PARTS	3 7	95	2-3	5	2-10	DIP/SPRAY/ BRUSH
VCI HD5   HD7   HD9   HD 100	WAXY	LARGE PARTS	8 15  30 50	95	2-3	5	2-10	DIP/SPRAY/ BRUSH
VCI 1368	WAXY	LARGE PARTS	25-200	220	2-3	5	-	BRUSH

# ADDITIVES

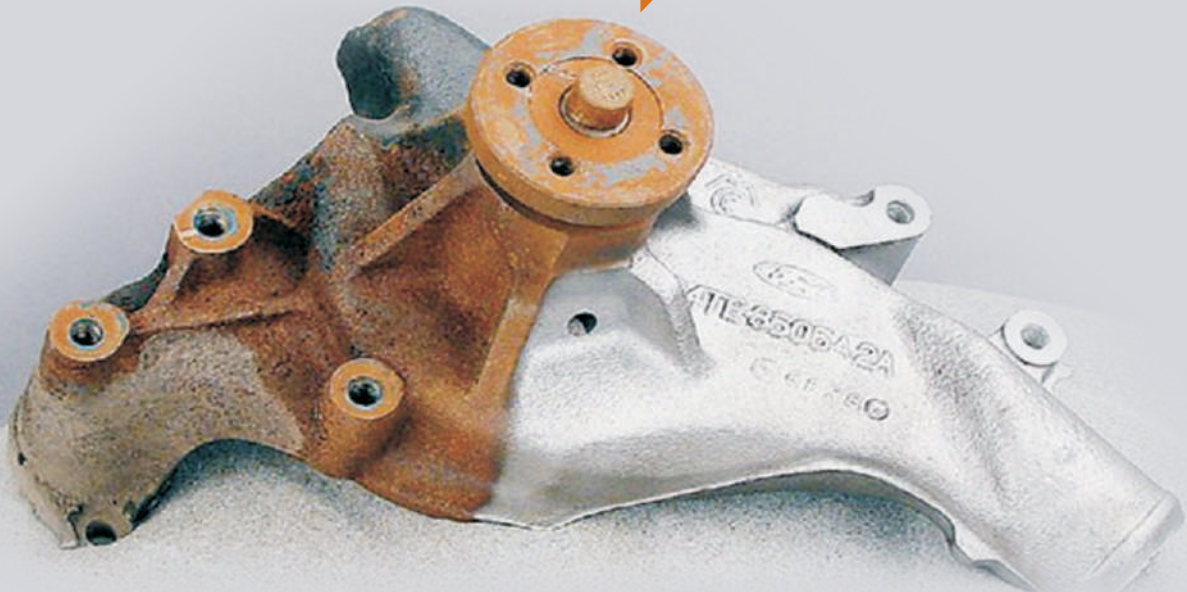
Deposition of water on metal surface results in high moisture content around the metal. Often heating is done to dry off the water which is slow and expensive method. RP additives when added with water stops inter process corrosion and provides protection. It is suitable for use in leak testing operations, coolant tanks, water washing and as additives in diesel and petrol tanks etc.

Product	Description	Concentration	Solubility in water	Protection	Colour before application	Colour after application
VCI 4500	LEAK TEST ADDITIVE	2-5%	SOLUBLE	1-2DAYS	TRANSPARENT	TRANSPARENT
VCI 4700	RP ADDITIVE	2-5%	SOLUBLE	1-2DAYS	TRANSPARENT	TRANSPARENT
VCI 4201	VCI POWDER	1:20 in water	SOLUBLE	1-2DAYS	WHITE	TRANSPARENT
VCI 4209	VCI LIQUID SLURRY	TANK BOTTOM	SOLUBLE	5-15 YEARS	AMBER	TRANSPARENT
VCI 905	DIESEL TANK RP ADDITIVE	0.1% - 0.15%	NO	1-3 YEARS	AMBER	TRANSPARENT
VCI 906	PETROL TANK RP ADDITIVE	0.1% - 0.15%	NO	1-3 YEARS	AMBER	TRANSPARENT
VCI 1377	WATER BASED CONC,	10-25%	SOLUBLE	15-30 DAYS	DARK AMBER	TRANSPARENT



# RUST REMOVER

neutrasafe **ph Netral Rust Remover**



## RUST REMOVERS

Rust-X Neutra-Safe Rust Remover is a powerful oxidation remover designed for use on various steels, iron, cast iron and copper metals & aluminum. Neutra-Safe Rust Remover is a concentrated neutral pH aqueous solution designed to remove rust and oxidation safely and economically. Neutrasafe works by selectively attacking the rust present on the surface of the metal and removing it into the solution of the rust remover. The product works in cavities, crevices and volutes and safely removes corrosion within seconds. It is available in the form of liquid, powder and jel. There is no reaction of the Neutrasafe chemical with the metal and hence no tarnishing or color change of the metal surface.



- Rust Removal in 5 minutes
- Available in powder and liquid
- Transparent Solution with no odour
- No special precautions required
- Easy disposal

pH of  
neutrasafe  
5.8

pH of  
aerated  
beverage  
3

pH of  
human  
skin  
5.5

action

reaction

result



## RUST CONVERTERS

Neutracoat Rust Converter is a powerful oxidation converter designed for use on various steels, iron, cast iron and copper, metals & aluminum. Neutracoat Rust Converter is a aqueous solution that converts rust from its depth to a protective black layer. The biggest advantage is that the components do not get rusty again after removing from solution it forms a black protective layer on the metal surface which can then be painted for longer life. It is neutral in nature and can be used in variety of automotive, civil, construction and oil&gas applications.

action

reaction

result



RUSTED PART



APPLY NEUTRACOAT



AFTER 10 MIN



AFTER 15 MIN



# VCI COATINGS

heavy duty **long protection**



## COATINGS

RustX high performance coatings offer clients a range of acrylic, waxy, transparent and bitumen based hard coats. These provide high salt spray life and longevity for metal protection. They are environmentally friendly and free from heavy metals.

Product Code	Description	Base	Colour	Type	Thickness (microns)	Dry time (mins)
VCI 657	WATER BASED	ACRYLIC	TRANSPARENT	NON PEELABLE	25-75	30 MINS - 2 HOURS
VCI 1372	PEELABLE COATING	ACRYLIC	TRANSPARENT	PEELABLE	50-100	3-6 HOURS
VCI 1368	WAX	OIL	AMBER HARD	REMOVABLE	25-75	2-4 HOURS
VCI 1369	JELLY	OIL	AMBER LIQUID	REMOVABLE	10-25	5-15 MINUTES
TECTONIC 506	BLACK COAT	BITUMEN	BLACK	NON PEELABLE	30-50	15-60 MINUTES
TECTONIC 509	HARD BLACK COAT	BITUMEN	BLACK	NON PEELABLE	50-75	30-60 MINUTES

### WRP 657



### VCI 1372



### VCI 1368



### VCI 1369



### TECTONIC 506



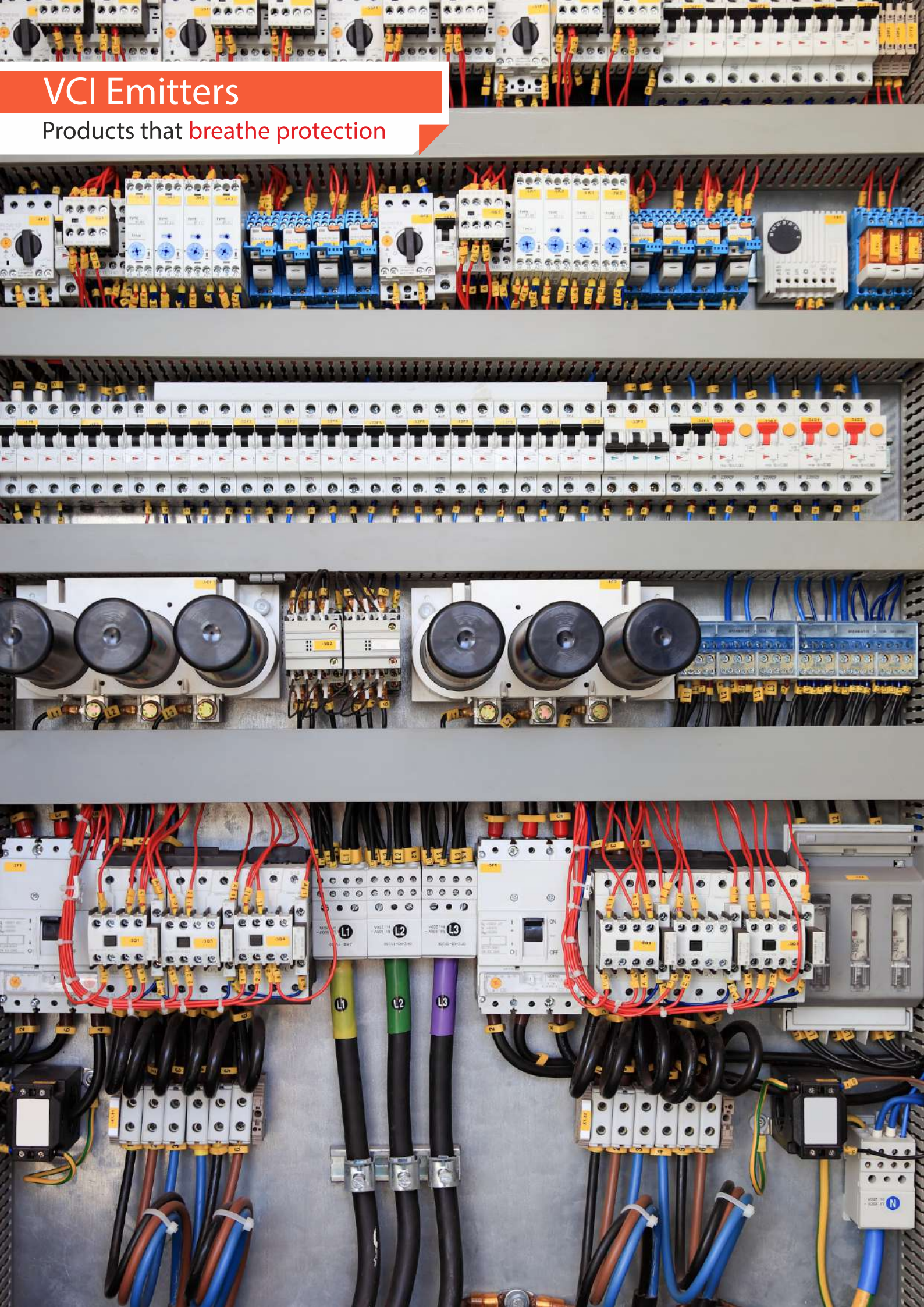
### TECTONIC 509





# VCI Emitters

Products that breathe protection





# VCI 4200 Emitters Sachets

VCI Emitters 4200 are a mixture of high and low speed concentrates of Vapor Corrosion Inhibitors powders that volatilize due to vapor pressure difference in the packaging and react with humidity . They form a nano molecular layer on the metallic surface that inhibits corrosion. It is packed in various sizes of Tysorb bags and can be placed in vicinity or direct contact with metal.



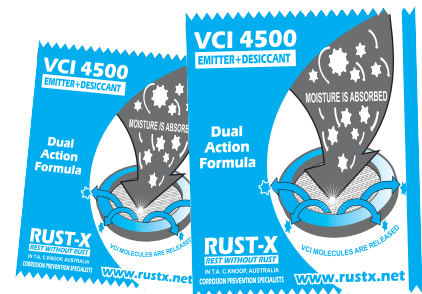
# VCI 19000 Desiccants



VCI Desiccants 19000 are DMF free, ROHS and REACH approved desiccants that help reduce the humidity inside the package. The desiccants adsorb excess moisture and drop the dew point point inside the package and maintain an environment that passivates corrosion.

# VCI 4500 Dual Action Pouch

VCI 4500 is the most advanced version which is the dual action pouch is made to avoid confusions that are commonly caused related to dosage levels of desiccant and emitters to the end customers in the packaging. The dual action formula absorbs moisture and emits VCI at the same time.



# VCI Emitter 5 and VCI Emitter 11

Emitter 5 and 11 are in the form of plastic boxes that can installed in electrical cabinets and form a leak proof system.

These work for a larger surface area and lasts longer and are designed to easy installation inside the junction boxes, electrical cabinets and enclosures.

# VCI 777 Chips

RustX VCI Chips are impregnated with the SMP VCI quality of rust preventives and give excellent cushion and scratch protection for metallic components and surfaces. RustX VCI chips provide ultimate corrosion prevention and also act as an abrasion barrier It is ideal to pack the chips in a closed environment close to metal for longevity of protection.



# VCI Foam 798

VCI Foams are flat PU foams containing VCI chemicals. These chemicals sublime and deposit on metal surfaces forming a protective mono-molecular layer. It conforms to most shapes without adding extra weight, helping to reduce the risk of damage to parts in transit.

# VCI 4231Tablets

Rust-X VCI Tablets Thanks to the small sizes, they can be easily positioned in the most hidden and difficult to protect points. They provide the mono-ionic protective layer to enclosed materials in containers,boxes,Plastic bags, Cartons etc which protects them from the corrosion and safe them from Rust.They are ideal solution for heat transfer equipment tubes as well as equipment which is hollow and needs corrosion protection .





# VCI Shrink Films

wrap it for **puncture proof packaging**



## VCI Lamina Shrink Films

RustX Lamina shrink Films are manufactured using state of the art SMP Technology for speedy moisture passivation and provides long term corrosion protection to the packaged equipment. It is made by adding a special layer of VCI in the co extrusion structure of the film manufactured. Lamina shrink Films when sealed isolates the packed machinery and equipments from influx of humidity and VCI pacifies the environment inside the packaging. RustX Thermo shrink Films are cross linked which increases the strength between the molecular chain and provides very high tear and tensile strength and dart impact.

Product Code	Description	Construction	GSM	Compliance
VCI 714	VCI Lamina Shrink	3 Layer Film with VCI	100/150/200/250/300	TL8135-0043 GE ITN 54750.02
UV 712	Shrink Film	3 Layer Film	100/150/200/250/300	GE ITN 54750.02



Max 12 mtr wide

# Barrier Foils

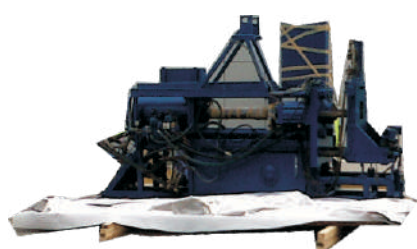
seal **vacuum preserve**



## VCI Barrier Foils

Aluminum barrier foils are a perfect combination to reduce WVTR and OTR penetrations inside the packaging and provide enhanced shelf life to the products. They can be vacuumed , heat sealed and stored for longer periods without the risk of losing the original condition the product was initially packaged. 3 dimensional covers for machines, Pallet liners as well as can be supplied in 2 Dimensional bags or sheet for packaging of parts. It is meant for product protection of ferrous and nonferrous metals. lumber, steel , agriculture, furniture, machinery etc and primarily for industrial use.

Product Code	Description	Construction	GSM	Compliance
VCI 761	VCI Metal Barrier	PET+METAL+VCI Film	100/125/150	TL8135-0043
VCI 1165	VCI Albar Scrim	PET+ AL foil+ Scrim+VCI Film	105/130/160	DIN555331 MIL PRF 131
VCI 995	VCI Albar Foil	PET+ AL foil+ VCI Film	100/125/150/200	MIL PRF 131J
VCI 985	VCI Albar Fabric	PET+PE+Al Foil+PE+Raffia	200	DIN55531-1 TL8135-0043 MIL PRF 131 H
VCI 995	VCI Anti Static Bags	PET+Al Foil +VCI Antistatic Film	100/125/150	TL8135-0043



Max 2 mtr wide



# Steel Coil Packaging

## Complete Coil Packing Solutions



## STEEL INDUSTRY SOLUTIONS

With many years of experience with heavy industry and knowing all the specifics of the problems related to the quality of the packaging processes, RUST-X focuses on the development of the market of packaging for steel industry as a one stop solution provider. Our in house manufacturing of a large range of products enable the steel industry to chose RUST-X as their supplier of choice.

### VCI Strength Fabric



RUST-X Strength Fabric is a woven fabric and as by its name is symbolic to not just the advantage of High Strength but also excellent moisture penetrations properties and oxygen transmissions.

It is laminated on both sides with Poly Ethylene or Propylene and impregnated with VCI additives.

Roll Width - max 160"  
Tensile Strength - 1200 kg / sqcm  
VCI - upto 5 years protection  
Mesh - 5x5, 5x8, 8x8 , 10x10  
Printing - upto 4 colours  
GSM - 80 / 90 / 105 / 120 / 180

### VCI Scrim Paper



RUST-X manufactures Super Laminated VCI Scrim Papers that have exceptional bi directional strength, tear resistance as well as puncture resistance. Volatile Chemicals coated on Kraft Paper can provide protection of up to 10 YEARS in packaged condition when in synergy with RUST-X oils.

Roll Width - max 80"  
VCI - upto 5 years protection  
Mesh - 1x1 "  
Printing - upto 4 colours  
Gsm - 125 / 150 / 180  
Layers - PE + Scrim + VCI Crepe

Max 2 mtr wide



## VCI Power Stretch



VCI Power Stretch films are ideal to wrap large machinery, coils or parts that cannot be packed in bags. It has great self healing and arrests influx of moisture. Rust-X VCI Power Stretch films when stretched on metal products isolate the packed coils and sheets from humidity and the VCI neutralizes the environment inside the package.

The elongate upto 600% and have great non transfer adhesives that allow self healing and binds the coil tight.

**RUST-X®**  
REST WITHOUT RUST

Roll Width - max 48"  
Standard - 9.5" / 10"  
VCI - upto 5 years  
Printing - upto 4 colours  
Microns - 50 / 60 / 70 / 80  
Layers - Co Ex PE 3 layer

## VCI Scrim Tight Film



The Rust-X VCI Scrim Tight Films is a 7 layered film that contains reinforced fibers between the layers spaced at regular intervals to enhance the tensile strength and tear resistance.

The reinforced fibers prevent tear propagation in the event of a puncture or shear damage. which is 3 times higher than the non-reinforced film.

Roll Width - max 48"  
Standard - 9.5" / 10"  
VCI - upto 5 years  
Printing - upto 4 colours  
Microns - 60 / 70 / 80  
Layers - CoEx 3 layer + Scrim  
+ Co Ex 3 Layers = 7

## VCI HDPE Papers



VCI HDPE Papers are manufactured by combining various combinations of raffia and PE with VCI papers. The VCI papers provide excellent protection against moisture and dew.

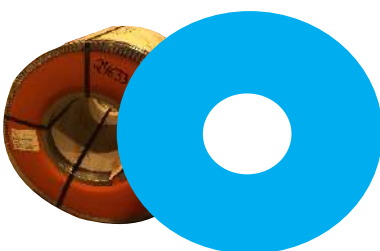
RUST-X HDPE PAPERS are heavily impregnated with VCI's ensuring longevity of protection

Roll Width - max 144"  
VCI - upto 5 years protection  
Printing - upto 4 colours  
Gsm - 135 / 150 / 180  
Layers - 3 / 4  
Constrution - PE+Raffia+PE  
+VCI Paper

Max 3.6 mtr wide



## OD / ID protectors & Protex



RUST-X Manufactures OD protectors, ID rings and Protex rolls that are pseudo embossed from a 0.5 mm sheet.

They can be die cut in the shape of rings and can be used as separators or protective covering for the steel coils and sheets.

Roll Width - max 60"  
Printing - upto 4 colours  
Gsm - 500 for Protex  
Thickness - 3mm  
Application - Damage

Max 1.5 mtr wide







**RUST-X 40** multipurpose spray that delivers a loosens jammed areas, provides protective coating for exposed metals preventing rust and corrosion.

**RUST-X Cold Zinc Galvanizing Spray** is a Zinc rich, cold galvanizing coating that provides long term corrosion protection comparable to hot-dip galvanization and also due to sacrificial anodization.



**RUST-X Degreaser** spray makes equipment run smoother, last longer and look new . The aerosol has deep foaming penetrating action and a powerful stream that removes oil , dirt and grime without engine disassembly .

**RUST-X Anti Spatter** Spray is a non-silicone, non-flammable release preparation that prevents adhesion of spatter on welding tools & parts. It also has a nozzle which prevents accumulation of spatter on nozzles & tips of welding torches.



**RUST-X UNDER BODY COAT** Spray leaves a resilient, heavy-duty waxy film for long term corrosion protection of all types of components and equipment particularly those operating in outdoor environments including automotive applications.

**Silicone spray** provides a protective , waterproof and low friction coating to multiple surfaces . Our quick dry formula cures into a clear , stain resistant hard film that protects your surfaces from the elements . Safe to use on metal , rubber , vinyl and plastic without a messy residue .



**RUST-X Liquid Grease** Spray, is premium white lithium grease. It is fortified with Polytetrafluoroethane and are designed to reduce friction between load bearing moving metal surfaces and also between metal and plastic surfaces.

**RUST-X Clear Coat** Spray is a highl gloss clear fast drying, flexible, protective and insulating coating designed to protect metal, plastic, wood, concrete, glass and other substrates from atmospheric corrosion, dust and other common contaminants.



**RUST-X Electrical & Electronic** Contact Cleaner and Conformal coatings are ideal for cleaning, maintaining and servicing electrical and electronic components, switches and circuits boards. It does not contain any lubricants. It is composed of a special cleaning fluid exhibiting low surface tension, high solvency, relatively rapid evaporation characteristics and deep penetrating properties.



# VCI SPRAYS

high performance **MRO products**





# Zorbit Desiccant

absorb it **protect it**



# Z

ZORB-IT

DUAL ACTION MOISTURE CONTROL



# About Zorbit (Absorb it)



Zorb-it desiccants are specially formulated dehumidifiers to control the relative humidity in the enclosed packaging system where damp environments can cause problems.

The issues caused by excessive moisture can be corrosion in metallic and automotive components during storage and exports, corrosion issues in machinery and process equipment during exports, fungal developments in textiles and garments, circuitry issues in electronic goods, mold development in leather goods, dampness in pharmaceutical products and tarnishing of brass, copper and silver. Zorbit Clay is tested to perform and exceed DIN 55474 and MIL PRF 3464 E .

## Zorbit Clay

Zorb-it clays are made from natural minerals that absorb moisture to upto 170% its own weight. These are activated granules or powder that adsorb moisture and are safe to be put near almost every commodity.



## Zorbit Clay SPECS

Absorption Capacity	up to 170%
Sizes	3gm, 5 gm, 10gm, 15 gm, 30 gm, 50 gm, 100 gm, 125 gm, 200 gm, 250 gm, 500 gm, 1 kg
Bio Degradable	Yes

## Zorbit Gel

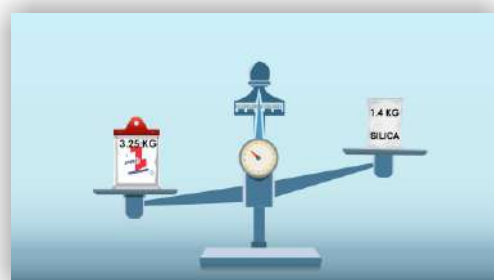
Zorb-it gel desiccants are made from combination of special starch that are highly hygroscopic and absorb upto 350% its own weight. They eventually form cake that is biodegradable and is ideal to be used when not in direct contact with the commodity.



## Zorbit GEL SPECS

Absorption Capacity	up to 350%
Sizes	50 gm, 100 gm, 125 gm, 200 gm, 250 gm, 500 gm, 1 kg, 1.5kg, 2 kg, 2.5 kg, 3 kgs
Bio Degradable	Yes

## Why I'm Better than silica gel !



Absorption  
350%

Bio  
Degradable

DIN 55474  
MIL PRF 3464E  
Tested



# MORE PRODUCTS !

more than 100 products to chose from

Special Films

## Eva Bags



Rubber compatible bags are specially grade polymer bags used for the addition of solid or liquid chemicals into the rubber during its processing in banbury or kneaders.

## Anti Static Bags



An anti-static bag is a bag used for storing electronic components, which are prone to damage caused by electrostatic discharge. Made from (PET) which has multiple layers of protection, including a silver metallic film.

## Tuffpaulin Films



Waterproof-Multilayer Cross Laminated material with UV protection. Tuffpaulin is used in a large range of applications for everything from providing shelter from inclement weather to protecting flooring from paint drips.

## Air Cushion Machine



Rapid is a Revolutionary Universal & versatile device capable of producing different variants of Air Cushioning products.

## Paper Pad Machine



Fillezy Paper Smart machine makes paper pads for high commercial production of cushioning applications.

## Fillezy Bins



Movable bins are used by placing rapid over an Individual Bin at different Packing stations. It accumulates cushions inside for easier storage, maneuverability and usage at pack stations.

## Fillezy Automation



Can be designed as overhead bins & executed as per the layout of the packing Stations systems available at packing areas.

## Fillezy VCI Bubble



Complete range of void fill and cushioning solutions that have proven to prevent damages up to 100%

## Fillezy Rewinder



Winders can be attached with Rapid to wind the Inflated rolls. These rolls can be removed and stored or taken to pack stations. It saves time so the user doesn't have to manually wind..

## Fillezy Paper Cushions



Get a Bio-degradbale solution with added protection for your products. The Eco-Fills are made of flexible recycled paper ensuring you upto Zero Damages

## Scrubber Machines



Scrubber Machine will reduce ethylene levels upto 98.9 percent to reduce shrinkage and extend shelf life. The media can effectively lower ethylene readings in storage areas from 75,000 to 150,000 cft.

## Tuff Tape



High adhesive strength tuff tape with great tear strength resistance to chemicals, water and greases. Can be used as a mastic tape and also for heavy duty applications in the agriculture, automotive and steel industry.

Protective Packaging

and more

## Tong Type Sealer



Seal your bags to inhibit influx of moisture in your packaging and prevent outflux of VCI from the packaging.

## Albar Sealer



RustX ALBAR SEALER is ideal to provide a 8-12mm seal for the aluminum foils to prevent influx of humidity in the packaging and provide air tight environment.

## Refractometer



Check the conc of your coolants or emulsions using high accuracy refractometer.

## Shockwatch



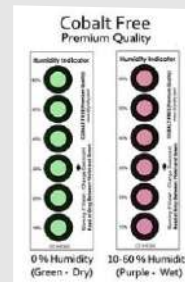
Reduce damage-related costs to your products by indicating when the packaging has been exposed to a potentially damaging impact during transit or in storage.

## RustX Datalogger



The device monitors humidity and temperature for a period of 60 days from the time its turned on. The data can then be transferred to any mobile device.

## Humidity Indicator Card



The Monitor Card contains chemically impregnated, humidity sensitive, indicating spots that will change color with moisture.

## VCI Bolt Caps



VCI filled bolt caps are plastic caps made of UV resistant plastic material and filled up with a preservative. When its pressed on the bolt head, VCI preservative flows out around the mating surface of the bolt and the flange area.

## Flange Savex



Rust-X VCI Metalbarrier and masking stickers film are manufactured to suit various valve & flange protection. It is Available in various sizes

## AmmoGuard



VCI ammoguard finds it application to prevent rifles, bullets and guns to be protected. A simple card can be placed inside the box which breathes and prevent corrosion of ammunition.

## RUST-X 40



RUST-X 40 multipurpose spray that delivers a loosens jammed areas, provides protective coating for exposed metals preventing rust and corrosion.

## Biocides



Biocides increase the sump life of coolant tank. Biocides are good bacterial that overtake the bad bacterial growth in coolant oil tank

## VCI HDPE Tape



VCI HDPE tapes with high adhesive properties for best tackiness in humid environment.

## Oxygen Absorbers



Oxygen absorbers are added to enclosed packaging to help decrease the level of oxygen in the package. They maintain product safety and extend shelf of food.

## HumidX Buckets



Absorb extra humidity in the surrounding using HumidX buckets. Ideal for electrical control rooms, bathrooms, wardrobes and basements. Water is collected inside the bucket.

## Odour Absorber



Odozorb is a unique chemistry made from natural materials that absorb odour and help increase longevity of freshness.





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**VCI**®

IS A REGISTERED TRADEMARK  
OF HI-TECH INTERNATIONAL

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