



## TECHNICAL DATASHEET

## PRODUCT NAME – RUST-X EMITTER

### PRODUCT CODE – VCI 4200 Emitter

### PRODUCT DESCRIPTION

Rust-X manufactures specialty VCI EMITTERS Pouch to prevent corrosion to the metallic components in the vicinity of these pouches. The specially designed pouch controls corrosion by the unique SMP Technology (Speedy Moisture Passivation) VCI Chemicals that release VCI to passivity the moisture in the surroundings and start an instantaneous action. The desiccants present in the pouch absorb moisture and trap it in the sieves of the desiccant gel.

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. VCI 4200 are in the form of powders which provide a higher surface area to the chemicals for vaporization or absorption compared to tablets etc. The special combination of desiccating materials as well as VCI emitters which come into action within seconds of placing in the containers provide an unmatched system of preservation of Metallic and Non Metallic Components.

The pouch is packed in special Tyvek/Tysorb paper to enhance the strength of packing and

stop any reversible release of moisture to the surroundings.

The vapours do not increase in contact resistance in electrical circuits and have no adverse effect on insulating materials or high voltage corona or carbon tracking. VCI 4200 is free from nitrites, DMF, heavy metals and non hazardous for commercial use.

Do not keep in direct contact as in some cases the pouch may sweat.

### APPLICATIONS

VCI 4200 Desiccant can be effectively used for:

- Operations, packaging and storage electrical equipment
- Automotive Components
- Marine navigation and communication electronic equipment
- Aerospace electrical controls
- Electric motors
- Switching equipment
- Fuse boxes and power boxes
- Medical equipment
- Electrical wire ways and terminal boxes
- Scientific and measuring instruments
- Telecommunications equipment
- Remote electronics devices



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- Hand-held, battery-operated devices
- Tool-boxes, parts-storage and other containers holding metals

### FEATURES

- Economical to use.
- Provides continuous protection for up to 24 months.
- Effective in polluted and humid environments.
- Doesn't interfere with electrical, optical or mechanical surface properties.
- Multimodal protection
- Quick and easy installation.
- Protects during operation and shutdown.
- Non-toxic and safe to handle.
- Contains desiccant properties.
- Compact, space-saving, unobtrusive device.
- Free of nitrites, silicones and phosphates.
- No spraying, wiping or dipping required.
- Low VOC values

### OTHER INFORMATION

VCI desiccant 4200 is extremely simple and convenient to install. The device should be installed at the earliest possible time. Simply select a space within any enclosure where corrosion protection would be useful. Verify the surface to which the device will be affixed is clean and free of debris & place the pouch in the vicinity of the components to be protected.

Do not touch the pouches to any component as they may cause staining on the components if they become wet after absorbing humidity.

It is available in:

- 5 grams
- 10 grams
- 20 grams
- 50 grams
- or as strings of required length

### USAGE

Place in vicinity of components or packaging to be protected. 300 grams of VCI 4200 protects 1 m<sup>3</sup> if placed scattered within the packaging. For larger equipments and machines, the free volume may be calculated at 50% minimum and the pouches may be dosed accordingly.

### APPLICATION PICTURES





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### PACKAGING AND STORAGE

Store in a cool dry place and always keep Desiccants sealed when not in use.

### DISPOSAL

Recommendation: Do not allow product to reach sewage system.

Disposal of product or waste must comply with official local regulations.

Packaging that cannot be recycled must be disposed in the same manner as the product.

### HEAVY METALS DECLARATION

RUST-X Rust Preventive products do not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated di-phenylether complying with the restricted substances listed in Article 4(1) of the RoHS Directive. RUST-X Rust Preventive Oils are also REACH Compliant for exports to the European Union.

### SAFETY INFORMATION

- Keep Out Of Reach Of Children
- Keep Container Tightly Closed
- Not For Internal Consumption
- Consult Material Safety Data Sheet For More Information
- Safe for people

- This product does not pose a health hazard to users due to its classification as an article according to EU REACH, UN GHS, US OSHA HazCom and CA WHMIS regulations.
- Rust-X VCI chemistry is safe for sensitive electronics.
- Rust-X VCI chemistry imposes No galvanic effects, residues or changes in the properties of metals. The protective molecules dissipate upon opening of package.

### DECLARATION

This Data sheet and information it contains is considered to be accurate at the date of printing. No representation or warranty, expressed or implied is made as to the accuracy or completeness of the data and information contained in this publication. It is the User's obligation to evaluate and use products safely and within the scope advised in the data sheet and to comply with all applicable laws and regulations.

### LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on validations and tests conducted by HI TECH INTERNATIONAL/RUST-X or its partners and are believed to be reliable, but the accuracy or completeness thereof is not guaranteed. We warrant our products will be free from defects when shipped



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to customer. Our obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Rust-X, Hi Tech International or its partners or agent of the claimed defect within 3 months after shipment of product to customer. Customer shall pay all freight charges for replacement products. We shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products. And any financial claims shall be limited to the value of the film sold.

Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of the company. The foregoing warranty is exclusive and in lieu of all other warranties, express, implied or statutory, including without limitation any implied warranty of merchantability or of fitness for a particular purpose. In no case shall HI TECH INTERNATIONAL/RUST-X be liable for incidental or consequential damages.

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