



TECHNICAL DATASHEET

PRODUCT NAME – VCI WATER BASE CONCENTRATE

PRODUCT CODE – VCI 1377

PRODUCT DESCRIPTION

Preservation of Equipment and Exports of Metal Components is a critical task. Water based rust preventives are the latest generation of Rust Preventive Water based solutions, which are also eco-friendly. This is due a solvent free product, which upon evaporation does not harm the environment & does not release VOC's, CFC's, nitrites or gases that may harm the environment.

VCI 1377 is applied as it is or can be diluted from 0.5 – 20% depending upon the application method and type of protection required.

VCI 1377 can be applied by spray, dip or brush. The product forms a corrosion preventive layer on the part after it dries which is soft, easily washable in paint lines, can be removed using spray jet, solvent or generic washing agents. The product remains corrosion free for a long time depending upon the layer thickness and concentration of the product.

This can also be used for leak testing @ 2-3 % where it forms a rust protection film inside the equipment. It can also be used for spraying and forming a coating on the inside of the vessels

where the concentration needs to be adjusted depending upon the storage life.

The VCI action of the water based solution makes it suitable for spraying within hollow equipment such as water based solutions, heat exchangers, reactors, storage tanks, pipes etc. The VCI fraction evaporates and reaches hard to reach surfaces where the direct water based solution spray cannot reach and protects the equipment from corrosion.

All RUST-X rust preventive water based solutions are Barium & Heavy Metal Free.

FEATURES

- Easy to use by spray, brush or dipping.
- Provides long term protection in the open environment
- Film stability upto 220 C.
- Protects parts for up to 2 years
- Free of solvent odours
- Free of VOC's, CFC's and nitrites



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TEST DATA

Physical Properties	Value
Colour	Amber to brown liquid
Viscosity	>30 Cst
Colour after application	Transparent
Flash Point	250 ° C
Corrosion Protection	Up to 24 months in packaging without water content up to 12 months indoors up to 15 days outdoors w/o direct rain depending upon layer thickness
Non volatile content	90%

USAGE

Spraying, Dipping or Brushing may be chosen for forming an even layer on the part.

Typical Recommendation:

- 2-3% for leak testing or interim protection
 - 7-10% for short term storage upto 12 months
 - 10-20% for long term storage upto 24 months
- In case this has to be used for exporting small components, the product should be dried off from water remnants by heating the part to 60-70C

APPLICATION PICTURES



APPLICATIONS

Thin film coating for dry storage of

- Machined Steel Components, Castings, Forgings
- CR sheets, Pipes, tubes
- Bearings, Gears
- Transmission Components
- Axles, Process Equipment
- Flanges
- Valves etc.



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PACKAGING AND STORAGE

Store in a cool dry place and always keep RPO 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 Water based solutions 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 to customer. Our obligation under this warranty shall



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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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