

TECHNICAL DATASHEET

PRODUCT NAME – RUST-X Rust Preventive

PRODUCT – VCI Jelly 1369 MIL PRF 16173 E Grade 2 Class 1

PRODUCT DESCRIPTION

RUST-X VCI Jelly is a viscous gel, which can be applied with a brush. The compound is highly active against corrosion under the most damaging environmental conditions and provides long-term corrosion protection to the parts on which it is applied. The liquid is transparent / light brown upon application and does not darken the parts.

The VCI Liquid Jelly doesn't solidify even after years of application. This therefore does not cause any dimensional changes on the part. The VCI Jelly is compatible with Engine, Hydraulic and Transmission fluids and does not need to be removed when the parts on which it is applied have to be assembled for Gear Boxes or Engines.

The Film is Self-Healing, which means that in an event of a scratch the fluid from the sides flows to rebuild the film over time with its displacing action. The VCI Liquid Jelly is tacky and stays on the surface and is not easily removed by handling and re-handling.

Alkalinity Reserve: The VCI Jelly molecules are highly hydrophobic and resist moisture or water to permeate through the formed layer

hence protecting the metal from corrosion. The VCI Jelly is highly active against acidic fumes and provides excellent corrosion protection in the acidic environments such as pickling areas or sea humidity. The property of high alkalinity reserve allows for a heavy buffer against acidic fumes.

This can be used to protect structures, chemical plants and equipment that are intended for outdoor storage or are located in open areas and need protection. These can also be used to protection unpacked refinery equipment oil pipeline equipment and valves, off shore refinery parts which are not painted or coated and require protection or during the storage while commissioning, for lay-up during shut downs and also on heat exchangers, windmills and automotive. Due to a higher drop point of the VCI Liquid Jelly it can be used on the chemical plant and equipment which operates at elevated temperatures.

This can also be used to protect Defense Equipment and installations where extreme climatic conditions may have detrimental effect on the properties of the equipment e.g. on cannons, guns, artillery, launch vehicles etc. It can be applied on machined surfaces of





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automotive equipment such as Transmissions, Gear Boxes, Engine Blocks, Flywheels, Hydraulic Pistons or other machined and unpainted surfaces to keep them from corrosion during storage and transportation.

All RUST-X rust preventive oils are Barium & Heavy Metal Free.

FEATURES

- Easy to use by brush or hand application.
- Transparent upon application
- Liquid displaceable film, which does not dry and hence does not cause physical change in part dimensions.
- Protects parts for upto 5 years in packed condition in open areas and upto 10 years indoors
- Highly hydrophobic and water displacing
- High Alkalinity Reserve
- Self-healing & self-lubricating
- Does not affect paint or coatings
- Can also be used in threaded areas and prevents water penetration and thread locking
- Compatible with Engine and Transmission Lubricants and need not be removed during assembly
- Environment Friendly

APPLICATIONS

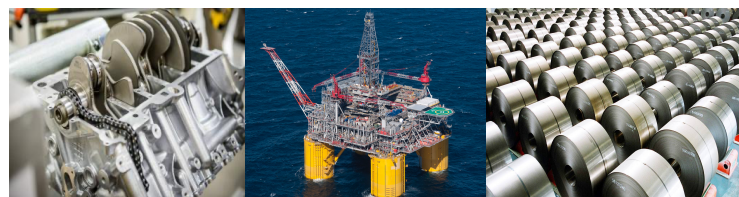
- This can be used to protect structures, chemical plants and equipment that are intended for outdoor storage located in open areas and need protection.
- These can also be used to protection unpacked refinery equipment oil pipeline equipment and valves, off shore refinery parts which are not painted or coated and require protection or during the storage while commissioning, for lay-up during shut downs and also on heat exchangers, windmills and automotive.
- Can be used on the chemical plant and equipment which operates at elevated temperatures.
- This can also be used to protect Defense Equipment and installations
- It can be applied on machined surfaces of automotive equipment.

USAGE

Clean the area to be protected using a cloth or RUST-X 40 spray.

Apply the RUST-X Liquid Jelly with a brush on the area to be protected. Ensure that all the area gets covered evenly with the jelly.

Dilution:



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It can be used directly or can be diluted with mineral spirits that are non acidic. It can be used for Long term Preservation in outdoor covered/packed as a concentrate Concentrate

Period	Dilution with Solvent VCI 1369: Solvent CL000
For Long term	1:5
For Medium Term	1:10
For Short Term	1:20

TECHNICAL SPECIFICATION

Physical Properties	Test Method	Value
Color	Visual	Amber Liquid
Freezing Point		-20°C
Specific Gravity	ASTM D 1298	0.98-1.03
Film Thickness (Depends upon application method)		25-200 microns
Viscosity		10000-45000cSt
Flash Point	ASTM D 92	220°C
Volatiles by % (by weight)		<0.05%
Degreasability with solvents		Passes

Humidity Protection (As Per Mil PRF 46002 C)	ASTM D 1748	7000 hours Pass
Salt Spray Protection		3500 hours +
Indoor Protection Life in VCI packaging		10 Years
Outdoor Protection Life in VCI packaging		5 Years
Outdoor Protection Life Open (covered)		2 -3 Years
Coverage (Depends upon application method brush or dip)		Upto 10 sq meters/ltr
Color	Visual	Amber Liquid
Indoor Protection Life (open)		6 months+
Indoor protection life (packed)		2 years+
Packaged Protection Life (In VCI Packaging)		Up to 5 Years



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APPLICATION PICTURES



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 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





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- 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 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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