

RUST-X USA



Technical Datasheet

Product: VCI RUST PREVENTIVE JELLY
Grade: 494

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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 upon application and does not darken the parts.

The VCI Liquid Jelly remains liquid even after years of application. This therefore does not cause any dimensional changes on the part. The VCI Liquid 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. 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 automotives. 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 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.

Product & Application Images



Part exposed to 3 months of open exposure to rainfall and saline environment. The jelly can be easily wiped off when required

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.

Application Method

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.

Removal

The VCI Liquid Jelly can be removed by cleaning with a wet wipe, washing with a solvent, diesel or washing with water based liquid industrial detergents.

Properties

| 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 | | >200 cSt |
| Flash Point | ASTM D 92 | 220°C |
| Volatiles by % (by weight) | | <0.05% |
| Degreasability with solvents | | Passes |
| Indoor Protection Life in VCI packaging | | 10 Years |
| Outdoor Protection Life in VCI packaging | | 5 Years |
| Outdoor Protection Life Open (covered) | | 2 -3 Years |
| Salt Spray Test | | 1000 hrs |
| Coverage (Depends upon application method brush or dip) | | Upto 10-20sq meters/ltr |
| Color | Visual | Amber Liquid |

Packaging

20kg, 25 kg Can & 180 kg Barrel

Suitable For

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.

Disposal

Wastes should be disposed off in accordance with local regulations.

Recommendation: Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

Packaging that may not be cleansed must be disposed off in the same manner as the product.

Safety Information

RUST-X Rust Preventive Oils do not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated di-phenylether complying with the re-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.

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

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