



VpCI® METALWORKING PRODUCTS



VpCI® Super Penetrant



PRODUCT DESCRIPTION

Cortec® VpCI® Super Penetrant offers a deep penetrating formulation that loosens frozen parts locked in rust. Its deep penetrating capabilities allow the user to go through as much as 1/2 inch (13 mm) of rust in 30 minutes. VpCI® Super Penetrant can be applied by a variety of convenient methods to meet any application needs including brush, hand pump spray, aerosol, spray application, or dipping.

As VpCI® Super Penetrant breaks through deep rust, it displaces moisture and water. Its superior surface wetting and moisture displacing properties allow it to spread rapidly and get underneath the moisture layer normally present on metal under atmospheric conditions. While loosening the rust, it lubricates metal so frozen parts can move freely. Utilizing patented Cortec® VpCI® technology, the VpCI® Super Penetrant forms an ultra thin film on metal that offers 6 months of protection from corrosion in extreme conditions.

Cortec® VpCI® Super Penetrant can be used for indoor and outdoor applications. Its superior water displacing characteristics make it an ideal choice for applications on equipment and components that are exposed to outside weather. It also conforms to Federal Specifications for VV-P-216 Penetrating Oil for Loosening Frozen Metallic Parts and ASTM D-971 Test for Interfacial Tension of Oil against water.

FEATURES

- Provides universal corrosion protection for ferrous metals, galvanized steel, aluminum, brass, copper, babbitt, zinc, cadmium, and silver
- Loosens frozen and rusted metal parts making them easy to move
- Meets the regulations set by California Air Resources Board for Volatile Organic Compounds in consumer products

TYPICAL APPLICATION

- Maintenance
- Lubrication
- Temporary storage - spray a light coating on flat metal before or after metalworking
- Small or complex metal parts - spray on or dip in
- General surface treatment - spray, dip, or brush surfaces to be protected for up to 24 months
- Home repairs of squeaky items

TYPICAL PROPERTIES

Appearance	Clear amber liquid
Film Type	Oily
Flash Point	149°F (65°C)
Removal Methods	Alkaline cleaners and solvents (VpCI-416/VpCI-419)
Density	6.8-7.0 lb/gal (0.82-0.84 kg/l)
Non-volatile Content	30-40%



PACKAGING AND STORAGE

VpCI® Super Penetrant is packaged in 5 gallon (19 liter) pails, 55 gallon (208 liter) metal drums, liquid totes, and bulk. It is also available in aerosol form net weight 10.8 oz (306g). The product should be stored sealed. Agitate before each use. Shelf life is up to 24 months.

PROTECTION PROPERTIES

VpCI® Super Penetrant displaces water as effectively as a leading lubricating rust preventive (R.P.) oil while providing much better protection against corrosion.

Time Before Corrosion								
	Salt Spray (Days) ASTM B-117			Humidity Test (Days) ASTM D-1748				Water Dis- placing per MIL-C-83933
	Carbon Steel	Aluminum	Copper	Carbon Steel	Cast Iron	Aluminum	Copper	
VpCI® Super Penetrant	5	15+	5	30+	10+	50+	50+	Pass
Leading Lubricating/R.P. Oil	5	15+	3	30+	1	50+	50+	Pass

STANDARD TEST METHODS

ASTM D-971	Test For Interfacial Tension Of Oil Against Water
ASTM B-117	Salt Spray
ASTM D-1748	Humidity Test
NACE RPO487-2000	Selection of Rust Preventatives

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT SAFETY DATA SHEET FOR MORE
INFORMATION

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Distributed by:

4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone (651) 429-1100, Fax (651) 429-1122
Toll Free (800) 4-CORTEC, E-mail info@cortecvci.com
<http://www.cortecvci.com>

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