VpCI®-377/377 Winterized



PRODUCT DESCRIPTION

VpCl®-377 is a water-based concentrate designed as a complete replacement for oil-based rust preventives for indoor protection of equipment and components. VpCl®-377 is a corrosion preventive liquid that meets tough anti-pollution requirements. The wide dilution range with water (0.5-20%)* allows flexibility to customize the length of protection required and the applied cost per square foot (or m²).

VpCl®-377 forms a solution in water and is applied to metal surfaces by spraying or dipping. In many cases, VpCl®-377 does not always need to be removed, but if necessary, can be removed with conventional alkaline cleaners, such as Cortec VpCl®-414.

VpCl®-377 is also available in a cold weather version. VpCl®-377 Winterized has a lower freezing point for the convenience of application and storage in cold temperataures.

*Contact Cortec® Technical Service for dilution recomendations.

FEATURES

- Protects ferrous and non-ferrous metals
- Water-soluble, safe to apply
- Very stable in hard water
- Will not clog filtration systems
- Forms a clear, dry, hydrophobic film
- Easy to remove if necessary
- Nitrite and phosphate ester free

- Non-flammable
- Passes ASTM D-4627-86 (Test Method for Iron Chip Corrosion for Water-soluble Metalworking Fluids) at 2% by weight
- Excellent wetting properties
- No hazardous decomposition by-products
- Can be coated over with most conventional paint systems

TYPICAL APPLICATIONS

Thin film coating for dry storage of:

- · Castings, tubular parts, finished parts, gears
- Pumps and housings
- Textile and printing equipment
- Structural steel, sintered metals
- Bars and roll stock
- Additive to rinse water systems

Spraying or dipping on metal surfaces will provide indoor protection.

METALS PROTECTED

- Carbon steel
- Aluminum
- Stainless steel
- Copper
- · Galvanized steel

APPLICATION

Product Preparation:

Add VpCl®-377 to water and mix thoroughly. Spray, dip, or use in parts washers and rinse tanks. Solution concentration can be monitored by a refractometer, or pH.



TYPICAL PROPERTIES

VpCI®-377

Clear dark brown **Appearance** or black liquid

Film Type Dry, clear 40-47% Non-volatile Content

рΗ 7.5-9.5 (Neat)

Density 8.7-9.2 lb/gal (1.04-1.10 kg/l)

BOD/COD

0.48 (2.5% solution in water 28 days)

Corrosion Resistance Up to 24 months indoors

VpCI®-377 Winterized

Clear amber liquid **Appearance**

Film Type Dry, clear Non-volatile Content 36-42%

7.8-8.9 (Neat) рΗ

8.8-9.2 lb/gal (1.05-1.10 kg/l) Density

Water + Propylene glycol Carrier

-22°F (-30°C) Freeze point

Corrosion Resistance Up to 24 months indoors

STANDARD TEST METHODS

ASTM D1735	Water Fog Cabinet
ASTM D-1748	Humidity Cabinet
ASTM D-4627	Cast Iron Chip Test
ASTM G-31	Immersion Corrosion Testing
NACE RP0487-2000	Selection of Rust Preventitives

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**

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec® Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec® Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec® Corporation's 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 Cortec® Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec® Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.
BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE,

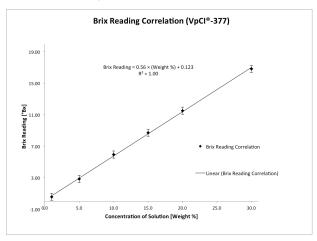
VpCI®-377 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk. The product should be stored sealed in a heated warehouse to avoid freezing.

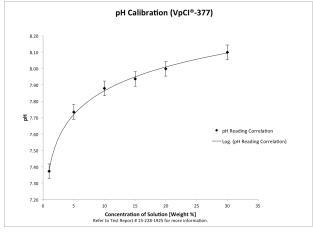
VpCI®-377 Winterized is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk.

VpCI®-377 is also available in EcoAir® compressed air cans (12 oz. / 340 g) bottles.

Shelf life is 24 months.

STORAGE AND PACKAGING





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

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Environmentally Safe VpCI®/MCI® Technologies

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