



VpCI® METALWORKING PRODUCTS

VpCI®-377/377 Winterized



PRODUCT DESCRIPTION

VpCI®-377 is a water-based concentrate designed as a complete replacement for oil-based rust preventives for indoor protection of equipment and components. VpCI®-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).

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

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

*Contact Cortec® Technical Service for dilution recommendations.

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 VpCI®-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

Appearance	Clear dark brown or black liquid
Film Type	Dry, clear
Non-volatile Content	40-47%
pH	7.5-9.5 (Neat)
Density	8.7-9.2 lb/gal (1.04-1.10 kg/l)
BOD/COD (2.5% solution in water 28 days)	0.48
Corrosion Resistance	Up to 24 months indoors

VpCI®-377 Winterized

Appearance	Clear amber liquid
Film Type	Dry, clear
Non-volatile Content	36-42%
pH	7.8-8.9 (Neat)
Density	8.8-9.2 lb/gal (1.05-1.10 kg/l)
Carrier	Water + Propylene glycol
Freeze point	-22°F (-30°C)
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

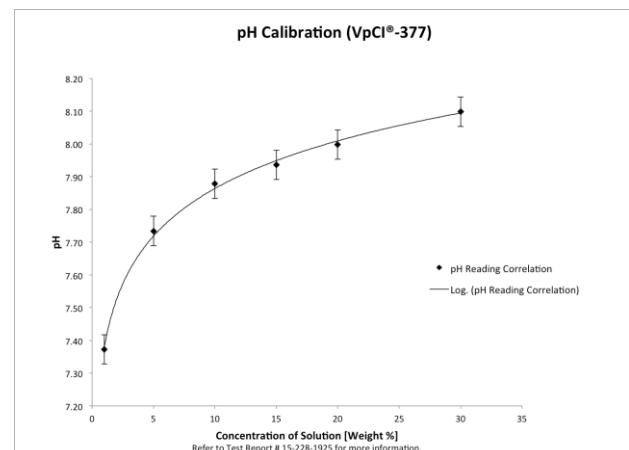
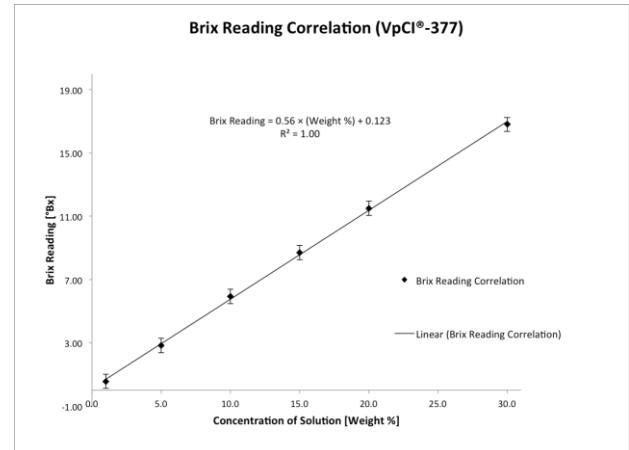
STORAGE AND PACKAGING

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.



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,

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 Cortec® Corporation.

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 CORTEC® CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Distributed by:

TEXAS TECHNOLOGIES, INC.

3600 W. Whitestone Blvd. Cedar Park, TX 78613

800.858.1379 or 512.267.0100

E-Mail: info@texastechologies.com

www.texastechologies.com