



MICRO-CORROSION INHIBITING COATINGS POWERED BY NANO VpCI®

VpCI®-389 / VpCI®-389 D



TYPICAL APPLICATIONS

- Equipment lay-up
- Parts processing protection
- Overseas shipping
- Maintenance repairs
- Parts storage

PROPERTIES

	VpCI®-389	VpCI®-389 D
Appearance	Liquid, various colors	
Non-Volatile Content	35-40%	17-22%
Density	7.9-8.4 lb/gal (0.95-1.01 kg/l)	7.8-8.4 lb/gal (0.94-1.01 kg/l)
pH	8.7-10 (Neat)	8.7-9.8 (Neat)
VOC (Actual)	.22 lb/gal (25.84 g/l)	0.14 lb (16.5 g/l)
Dry to Recoat Time	30-90 minutes	
Dry to Tacky Time	10-60 minutes	
Dry to Cure Time	1-3 hours	
Film Type	Soft, tacky	
Shelf Life	12 months at 75°F (24°C)	
Theoretical Spread Rate	187-561 ft ² /gal at 1-2 mils (7-14 m ² /l at 25-50 microns)	

PRODUCT DESCRIPTION

VpCI®-389 is a water-based, temporary coating which provides excellent protection for outside applications and salt-spray resistance. VpCI®-389 is an environmentally friendly replacement to oil-based products.

VpCI®-389 is an excellent choice for long-term indoor protection (up to 5 years*) and short to medium-term (6-24 months*) unsheltered outdoor protection. This product cures to a soft film and eventually hardens. VpCI®-389 can be easily removed with alkaline cleaners, such as Cortec® VpCI-414.

*Depends on conditions and/or film thickness

FEATURES

- Multimetal protection
- Safe and easy to use
- Environmentally friendly
- Available in ready-to-use form - VpCI®-389 D (1:1)
- Works in SO₂ and H₂S environments

METALS PROTECTED

- Aluminum
- Steels
- Cast iron
- Copper and alloys
- Tin

APPLICATION

Surface Preparation:

The surface must be equivalent to ARS. Low A-3 and higher or SSPCs SPs 1, 2, 3, 5, 6, and 10. The recommended film thickness range is 1-2 mils (25-50 microns).

Product Preparation:

Can be diluted with water for sprayability/application purposes; most working ranges are between 1:1 to 1:8 (VpCI®-389:Water).



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

Product Application:

Mix VpCI®-389 prior to use. VpCI®-389 can be applied by spray, brush, roll, or dip. Normal WFT of 3-6-mils (75-150 microns) yields 1-2-mils (25-50 microns) DFT.

Airless Spray:

Pressure	2000 psi (140 bar)
Filter	60 mesh
Tip	0.015" (0.038 cm)
Dilution	0-50%

Conventional:

Equipment	Binks 18 gun or equivalent
Automatization pressure	40 psi (3 bar)
Fluid pressure	20 psi (1 bar)
Cap/Tip	66/S
Dilution	10-50%
Brush	Nylon/polyester or nylon (dilution 0-50%)
Roller	Polyester knitted (dilution 0-50%)
Dip	See Cortec® Application Notes "Dipping" (dilution 2:1 to 1:5)

Product Cleanup:

Use water to clean up tools and overspray.

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

PACKAGING AND STORAGE

VpCI®-389 and VpCI®-389 D are available in 5 gallon (19 liter) pails, 55 gallon (208 liter) metal drums, liquid totes, and bulk. Do not allow product to freeze.

APPLICATION CONSIDERATIONS

VpCI®-389/VpCI®-389 D should be completely dry before placing the part into storage.

PROTECTION PROPERTIES

Test Method	DFT*	SAE 1010 Carbon Steel	Cast Iron
ASTM D 1748 Humidity	1-mil (25 microns)	1000+ hr	-
ASTM G 85-94 Prohesion	1-mil (25 microns)	600 hr	-
ASTM B 117 Salt Spray	2-mils (50 microns)	600 hr	40 hr @ 0.5 mil (12 microns)
DIN 50017 H ₂ O Atmospheres Condensation	0.5-mil (12 microns)	96 hr	~5% corrosion

*Dry film thickness

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.



Environmentally Safe VpCI®/MCI® Technologies

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>
<http://cortecoatings.com/>

Printed on recycled paper  100% post consumer

Revised: 08/30/16. Supersedes: 08/26/13. ©Cortec Corporation 2002-2016 of Cortec Corporation. All Rights Reserved. Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited. 2016, ©Cortec Corp. ISO accreditation applies to Cortec's processes only.

Distributed by: