





MICRO-CORROSION INHIBITING COATINGS POWERED BY NANO VPCI®

VpCI®-389 / VpCI®-389 D



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.

VpCl®-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. VpCl®-389 can be easily removed with alkaline cleaners, such as Cortec® VpCl-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

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)	
рН	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 ft²/gal at 1-2 mils (7-14 m²/l at 25-50 microns)		

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).



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:

2000 psi (140 bar) Pressure

Filter 60 mesh

0.015" (0.038 cm) Tip

Dilution 0-50%

Conventional:

Binks 18 gun or equivalent Equipment

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

Roller Polyester knitted (dilution 0-50%)

See Cortec® Application Notes Dip

"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.

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