

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.

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

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)	

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:

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

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