



## HIGH PERFORMANCE VpCI™ COATINGS

# 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 SO<sub>2</sub> and H<sub>2</sub>S 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	Off-white to beige viscous liquid	
Non-Volatile Content	35-43%	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	9.5-10.5 (neat)	9-10 (neat)
VOC	1.42 lb/gal (170 g/l)	0.71 lb/gal (85 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	530-690 ft <sup>2</sup> /gal at 1-mil (14-17 m <sup>2</sup> /l at 25 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 0.2-2.0 mils (5-50 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 5-mils (125 microns) yields 2-mils (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)

**LIMITATIONS**

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

*Product Cleanup:*

Use water to clean up tools and overspray.

**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 <sub>2</sub> O Atmospheres Condensation	0.5-mil (12 microns)	96 hr.	~5% corrosion

\*Dry Film Thickness

**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.

VpCI-389 D is also available in EcoAir compressed air spray cans (12 oz / 340 g).

**FOR INDUSTRIAL USE ONLY**

**KEEP OUT OF REACH OF CHILDREN**

**KEEP CONTAINER TIGHTLY CLOSED**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION**

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