



HIGH PERFORMANCE VpCI® COATINGS

VpCI®-391

Non-tacky temporary coating



PRODUCT DESCRIPTION

VpCI-391 is a water-borne, temporary coating that is intended for medium to long-term indoor and outdoor protection.

Once dried, VpCI-391 builds a non-tacky transparent film on the metal surface, that provides excellent salt, humidity, and UV resistance.

This product, being a complex mixture of non-toxic organic inhibitors incorporated in a water-based acrylic polymer, offers corrosion protection that can compete with most permanent coatings and primers.

FEATURES

- Fast drying, non-flammable
- Clear coating allows visual inspection of metal substrate
- Provides excellent corrosion protection
- Can be removed using an alkaline cleaner such as VpCI®-414
- Available in different colors
- Water-dilutable, environmentally friendly, and safe to apply
- Cost-effective - protects at very low Dry Film Thickness (DFT)
- Works in SO₂ and HCl environments

METALS PROTECTED

- Carbon steel
- Cast iron
- Aluminum
- Stainless steel
- Galvanized steel

APPLICATION

VpCI-391 is recommended for metal surfaces as a protective coating when a non-tacky surface is required and when optimal removability is beneficial.

VpCI-391 can be applied by spraying, rolling, brushing, or dipping.

TEST DATA (SAE 1010 Carbon Steel)

Test Method	Thickness of Coating (mils/microns, DFT)	Time of Protection (hours)
Salt Spray (ASTM B-117)	0.5/12.5	140
	1.0/25	250
	2.0/50	600
Humidity (ASTM D-1748)	1/25	1400
	2/50	1500 +

TYPICAL PROPERTIES

Appearance	Milky off-white liquid
Non-volatile Content	34-45%
Dry to Touch Time	30-60 min at 75°F (24°C)
Viscosity	3500-10,000cps (6 rpm/#3)
pH	8.9-9.5 (neat)
Density	8.1-8.5 lb/gal (0.97-1.02 kg/l)
Theoretical Spread Rate (1-3 mils)	218-545 sq ft/gal (5.4-13.6 m ² /l)
VOC (regulatory)	1.0-1.1 lbs/gal (119.8-131.8 g/l)
VOC (actual)	0.4-0.5 lbs/gal (47.9-60 g/l)
Temperature Resistance (Fully Cured)	-150°F to 275°F (-78°C to 130°C)
Dry Film Thickness	1.0-3.0 mils (25-75 microns)
Wet Film Thickness	2.5-7.5 mils (62.5-187.5 microns)

PACKAGING AND STORAGE

VpCI-391 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk. Keep product from freezing.



APPLICATION EQUIPMENT

Airless Spray Equipment:

Manufacturer	Gun Model	Tip/Aircap Combination
DeVilbliss	JGN-501	QFA-519
Binks	Model 500	Mercury 5C
Graco	205-591	Bulldog

Hose should be 3/8" (0.95 cm) I.D. minimum, but a 1/4" (0.64 cm) I.D. whip end section may be used for ease of application. A maximum length of 100 feet (30.5 m) is suggested. Best results will be obtained using a 0.013"-0.017" (0.3-0.4 mm) tip at 1200-1700 psi (83-117 bar).

Note: Nylon or Teflon type packings are available from pump manufacturer and are highly recommended.

Note: Similar equipment may be suitable.

Brush Nylon/Polyester or nylon
Roller Polyester knitted

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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Distributed by:



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

Internet <http://www.CortecVCI.com>

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