



HIGH PERFORMANCE VpCI® COATINGS

VpCI™-386 Acrylic Primer/Topcoat



PRODUCT DESCRIPTION

VpCI™-386 is a unique, water-based acrylic primer/topcoat that successfully provides protection in harsh, outdoor, unsheltered applications. The complex mixture of non-toxic, organic inhibitors offers protection that can compete with most paints and zinc-rich primers.

VpCI™-386 is superior to many coatings with inorganic pigments because the resistance has been improved by replacing pigments and metal oxides with more effective organic corrosion inhibitors. The special combination of additives provides a composite polymer barrier that significantly retards the reaction of metal ionization. A protective film is adsorbed onto metal surfaces. It protects against corrosive electrolytes and aggressive environments, thus preventing corrosion.

VpCI™-386 provides a fast-drying thixotropic coating that is resistant to sagging or running, forming a tough, non-flammable, protective barrier. This dry-to-touch film offers extended protection for outdoor or indoor conditions. Thermally stable when dried from 55°F to 350°F (13° to 180°C), the coating is ultraviolet resistant. It gives optimal outdoor performance without cracking or chipping upon prolonged exposure to sunlight.

VpCI™-386 is a clear coating that allows visual inspection of the metal surface after application. This coating can be easily tinted with pigment dispersions.

FEATURES

- Fast-drying, non-flammable
- UV resistant when dried
- Forms non-flammable, protective barrier
- Optimal outdoor performance
- Clear coating allows visual inspection of metal substrate
- Available in standard and custom colors

METALS PROTECTED

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

APPLICATION

VpCI™-386 can be used as a topcoat/primer. When solvent-based topcoats are applied over VpCI™-386, compatibility must be checked. VpCI™-386 can also be used as a topcoat with Cortec® VpCI™-374 as a primer.

Note: Make sure dew point is more than 5°F (2°C) less than air temperature for application.

Power agitate to a uniform consistency using a “squirrel cage” type mixer, hand-held drill mixer, or other equivalent method.

VpCI™-386 can be applied by spray, roll, brush or dip.



TEST DATA [at 2 mils (50 microns)] DFT*

Test Method	SAE 1010 Carbon Steel	Aluminum
Salt Spray (ASTM B117)	168 hours	1000+ hours
Humidity (ASTM D1748)	1000+ hours	1000+ hours

*Dry Film Thickness

Conventional Spray

Manufacturer	Gun Model	Tip/Aircap Combination
DeVilbiss	MBC or JGA	704E
Binks	#18 or #62	66PE

Fluid hose should be 3/8" (0.95 cm) I.D. with a maximum length of 50 feet (15.2 m). Pot should always have dual regulation and be kept at same elevation as spray gun.

Airless

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

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 cm) 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.

PACKAGING AND STORAGE

VpCI™-386 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) metal drums, liquid totes and bulk. Keep product from freezing.

TYPICAL PROPERTIES

Appearance	Milky off-white liquid
pH	9.0-9.6 (Neat)
Density	8.4-8.6 lb/gal (1.01-1.03 kg/l)
Non-volatile Content	35-42%
Dry Film Thickness (per coat)	1.5-3.0 mils (37.5-75 microns)
Theoretical Spread Rate	535-641 ft ² /gal (13-16 m ² /l)
Dry to Touch Time	30 minutes @ 75°F (24°C) at 2 mils (50 microns)
Temperature Stability	45°-90°F (7°-32°C)
VOC (ASTM D-3960)	1.7 lb/gal (203 g/l)
Viscosity	700-3,000 cps (6 rpm/#2)

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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