VpCI®-375 HT Clear

PRODUCT DESCRIPTION

VpCI-375 HT Clear is a unique, high heat resistant water-based 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-375 HT Clear is superior to many coatings with only inorganic pigments. The special combination of additives provides a composite polymer barrier that significantly retards the reaction of metal ionization and repels water. A protective film is adsorbed onto metal surfaces. It protects against corrosive electrolytes and aggressive environments, thus preventing corrosion.

VpCI-375 HT Clear provides a fast-drying thixotropic coating that is resistant to sagging or running. This dry-to-touch film offers extended protection for sheltered, unsheltered, outdoor, or indoor conditions. Thermally stable when dried from -150°F to 700°F (-78° to 371°C). The coating is ultraviolet resistant. It gives optimal outdoor performance without cracking or chipping upon prolonged exposure to sunlight.

FEATURES

- Heat resistant up to 700°F
- Fast-drying
- UV resistant
- Optimal outdoor performance

MIXING INSTRUCTIONS

This coating is supplied in a single component.
Power agitate at low speed to a uniform consistency using a "squirrel cage" type mixer, hand-held drill mixer, or other equivalent method.

APPLICATION

VpCI-375 HT Clear can be used as a topcoat/primer. When solvent-based topcoats are applied over VpCI-375 HT Clear, compatibility must be checked.

Note: Make sure dew point is more than 5°F (2°C) less than air temperature for application and the temperature is at least 55°F (13°C).

VpCI-375 HT Clear can be applied via spray, roller, or brush.

METALS PROTECTED

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

** A wash primer such as VpCI-373 green applied at 0.5-1.0 dry mils (12.5-25 microns) may be necessary before applying the VpCI-375 HT Clear to these substrates.

TEST DATA

	CS 1010	Aluminum
Salt Spray (ASTM B117)	500+ hr.*	1000+ hr.
Humidity (ASTM D1748)	1000+ hr.	1000+ hr.

*1.5 to 2-mils (37.5 to 50 microns)

Passes:
ASTM D-2485-91: Standard Test Methods for evaluating coatings for High Temperature Service
(Method A) (After heating)

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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 ¼" (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-375 HT Clear is available in 5 gallon (19 liter), 55 gallon (208 liter), liquid totes, and bulk. Keep product from freezing. Avoid temperatures higher than 75°F (24°C) while in storage.

TYPICAL PROPERTIES

Appearance	Matte clear
pH	8.5-9.5 (Neat)
Density	8.3-9.5 lb/gal (0.99-1.14 kg/l)
Non-volatile Content	35-40%
Fully Cured	7 days at 77°F (25°C) 55% RH
Dry Film Thickness (per coat)	1.5-2.5 mils (37.5-62.5 microns)
Theoretical Spread Rate	561-641 ft^2/gal (1.0 mils) 13.6-15.2m^2/l (@25 microns)
Dry to Touch Time	30 minutes @ 77°F (25°C)
VOC Actual	0.8-0.9 lb/gal (95.8-107.8 g/L)
Viscosity	700-3,000 cps (6 rpm/#3)
Shelf life	12 months
Temperature Resistance (Fully Cured)	-150°F to 700°F (-78°C to 370°C)

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

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