

# VpCI<sup>®</sup>-387 Water Based Acrylic Hi-Build Topcoat

# DESCRIPTION

VpCI®-387 is a fast drying, high build water-based acrylic one coat system (topcoat) that can be applied DTM (Direct to Metal) and provides protection in harsh, outdoor, unsheltered applications. The complex mixture of non-toxic, organic inhibitors offers protection that competes with most paints and zinc-rich primers. Provides multi-metal protection. Excellent UV resistance. Can be matched to most custom colors

#### **PACKAGING & STORAGE**

VpCI®-387 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) metal drums, liquid totes, and bulk. Keep product from freezing. Product shelf life is 1 year.



# CHARACTERISTICS/TECHNICAL DATA

Volume Solids	30.90%
Gloss (ASTM D532)	80+
VOCs (ASTM D3960)	0.8 lbs/gal (95 g/l)
Viscosity	3,400-6,000 Centipoise
Pencil Hardness (ASTM D3363)	Н
Spreading Rate	495 sq.ft/gal @ 1.0 mils DFT (12.1 sq.m/l @ 25 μm)
Weight per Gallon	8.58 lbs/gal (1.03 kg/l)
Flash Point	>200°F (93°C)
Recommended DFT	3.0-5.0 mils (75-125 μm)
Recommended WFT	9.0-16.0 mils (225-400 μm)
Dry to Touch	1 hr
Dry to Handle	2 hrs
Recoat Time	Dry to touch - 72 hrs, sand thereafter
Force Dry	15-20 min @ 150°F (65°C)
Full Cure	3-7 days
Salt Spray (ASTM B117)	500 hrs
Humidity (ASTM D1748)	1500 hrs
Adhesion (ASTM D3359)	5B
Flexibility (ASTM D522)	1/2" mandrel (1.27cm)

\*All tests performed after a 7 day cure at ambient temperature

#### APPLICATION

# **Surface Preparation**

Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, rust inhibitors, or any other surface contamination that could affect adhesion. For production line applications, use VpCI®-440 or similar phosphatizing pre-treatment. For structural steel applications, Cortec® recommends a minimum of a NACE #3/ SSPC-SP6 commercial

A wash primer such as VpCI®-373 green applied at 0.5-1.0 mils (12.5-25 microns) is recommended before applying the VpCI®-387 to aluminum, galvanized or plated substrates. Other recommended primers include VpCI®-375, 395 and 396 depending on coating requirements.

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<sup>®</sup>-387 can be applied by spray, roll, brush, or dip.

# **Typical Equipment Setups**

# HVLP / Conventional Spray

- Tip .009"-.021" \*dependent upon pressures and viscosity
- Air Pressure 45-55 psi
- Fluid Pressure 10 psi
- 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.

# **Air Assisted Airless / Airless**

- Tip .015"-.035" \*dependent upon pressures and viscosity
- Pressure 1800-2500 psi
- 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.

# **Cleanup**

Clean tools/equipment immediately after use with water when paint is still wet. When dry, use Butyl Cellusolve or MEK. Follow mfg's safety recommendations when using any solvent.

#### LIMITED WARRANTY

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