

EcoShield® VpCI®-386 HT Slip Coating

DESCRIPTION

EcoShield® VpCI®-386 HT Slip Coating is a unique high-heatresistant water-based DTM coating that offers improved surface slip, excellent outdoor weathering, and thermal heat protection. Its complex mixture of organic inhibitors and specialty additives offers protection that competes with most paints and zinc-rich primers. EcoShield® VpCl®-386 HT Slip Coating significantly retards the reaction of metal ionization and repels water, thus protecting against corrosive electrolytes and aggressive environments. This fast-drying thixotropic coating resists sagging and running and is thermally stable when dried in ambient temperatures from -150 to 500 °F (-101 to 260 °C). EcoShield® VpCI®-386 HT Slip Coating offers extended protection in sheltered, unsheltered, indoor, or outdoor conditions. The coating is ultraviolet resistant and gives optimal outdoor performance without cracking or chipping upon prolonged exposure to sunlight. Heat resistant up to 500 °F (260 °C) or more depending on color choice. Available in Clear, Black, or Aluminum.

PACKAGING & STORAGE

EcoShield® VpCl®-386 HT Slip Coating is available in 5 gallon (19 L) pails, 55 gallon (208 L) drums, liquid totes, and bulk.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 1 year



CHARACTERISTICS/TECHNICAL DATA

Volume Solids		31%
Gloss (ASTM D532)		80+
VOCs (ASTM D3960)		0.25 lbs/gal (30 g/L)
Viscosity		Black: 800-1600 cps (6 rpm/#3) Aluminum: 700-3,000 cps (6 rpm/#3) Clear: varies
Pencil Hardness (ASTM D3363)		НВ-Н
Spreading Rate		248.5-497 ft²/gal (1.0-2.0 mils) 6.10-12.21 m²/L (25.0-50.0 μm)
Weight per Gallon		Black: 8.6-8.8 lb/gal (1.03-1.05 kg/L) Aluminum: 8.3-8.8 lb/gal (0.99-1.05 kg/L) Clear: 8.4-8.8 lb/gal (1.01-1.06 kg/L)
Flash Point		>200 °F (93 °C)
Recommended DFT		Black: 1.0-2.0 mils (25.0-50.8 μm) Aluminum: 1.0-2.0 mils (25.0-50.8 μm) Clear: 1.0-2.0 mils (25.0-50.8 μm)
Recommended WFT		3.2-6.45 mils (80.0-161.25 μm)
Dry to Touch		30 min @ 77°F (25 °C)
Dry to Handle		1 hr
Force Dry		15-20 min @ 150 °F (65 °C)
Full Cure		3-7 days @ 77 °F (25 °C), 55% RH
Salt Spray (ASTM B117)	CS 1010	500+ hr [†]
	Aluminum	1000+ hr
Humidity (ASTM D1748)	CS 1010	1000+ hr [†]
	Aluminum	1000+ hr
Adhesion (ASTM D3359)		5B

EcoShield® VpCI®-386 HT Slip Coating

Flexibility (ASTM D522)	½" mandrel (1.27 cm)
High Temperature Service (Method A) (ASTM D2485-91)	Pass

†1.5 to 2.0 mils (37.5-50.0 μm)

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 (except Cortec® approved) , or any other surface contamination that could affect adhesion. For production line applications, use VpCl®-440 or similar phosphatizing pre-treatment. For structural steel applications, Cortec® recommends a minimum of a NACE #3/ SSPC-SP6 commercial blast clean. Consult Cortec® Technical Service and/or test system adhesion prior to full scale application.

A wash primer such as VpCl®-373 Green applied at 0.5-1.0 mils (12.5-25 microns) is recommended before applying the EcoShield® VpCl®-386 to aluminum, galvanized, or plated substrates. Other recommended primers include VpCl®-375, 395, and 396 depending on coating requirements. When solvent-based topcoats are applied over VpCl®-386, compatibility must be checked.

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.

Typical Equipment Setups

HVLP / Conventional Spray

- Tip 0.02"-0.11" (0.5-2.8 mm) dependent upon pressures and viscosity
- Air Pressure 45-55 psi
- Fluid Pressure 10 psi
- Fluid hose should be %" (0.95 cm) I.D. with a maximum length of 50 feet (15.2 m). I.D. fluid hose can be used, but pressures may need to be adjusted. Pot should always have dual regulation and be kept at same elevation as spray gun.

Air Assisted Airless / Airless

- Tip 0.015"-0.035" (0.38-0.89 mm) dependent upon pressures and viscosity
- Pressure 1800-2500 psi
- Hose should be ¾" (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.

4119 White Bear Parkway, St. Paul, MN 55110 USA Phone (651) 429-1100, Fax (651) 429-1122 Toll Free (800) 4-CORTEC info@cortecvci.com https://www.cortecvci.com https://www.corteccoatings.com











LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec® Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec® Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec® Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec® Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec® Corporation.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC® CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.