

VpCI®-384 Solvent Based Urethane Topcoat

DESCRIPTION

VpCI®-384 is a solvent-based 2K urethane one coat system (topcoat) that 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®-384 is available in 4 gallon (15.1 liter) kits, 3 gallons Part A, 1 gallon Part B.

Product shelf life is 1 year.



CHARACTERISTICS/TECHNICAL DATA

Volume Solids	50 - 55%
Gloss (ASTM D532)	85+
VOCs (ASTM D3960)	3.5 lbs/gal (419 g/l)
Viscosity	70-75 Ku
Pencil Hardness (ASTM D3363)	H-2H
Spreading Rate	816 sq.ft/gal @ 1.0 mils DFT (mixed) (20 sq.m/l @ 25 um)
Weight per Gallon	9.33 lbs/gal (1.12 kg/l)
Flash Point	72°F (22°C)
Recommended DFT	1.5-3.0 mils (37.5-75 um)
Recommended WFT	3.0-6.0 mils (75-150 um)
Dry to Touch	30 minutes
Dry to Handle	1.5-2 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)	336 hrs
Humidity (ASTM D1748)	500 hrs
Adhesion (ASTM D3359)	5B
Flexibility (ASTM D522)	1/2" mandrel (1.27cm)
*All tests performed after a 7 day cure at ambient temperature	

VpCI®-384 Solvent Based Urethane Topcoat

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 blast clean. Consult Cortec® and/or test system adhesion prior to full scale application.

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®-384 to aluminum, galvanized or plated substrates. Other recommended primers include VpCI®-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.

Mix Ratio

3 Part Part A (3 gal (11.3 l))
1 Part Part B (1 gal (3.8 l))

Power agitate to a uniform consistency using a "squirrel cage" type mixer, hand-held drill mixer, or other equivalent method. VpCI®-384 can be applied by spray, roll, brush, or dip. When mixing using a pressure pot setup, allow 15-30 minutes of sweat-in time prior to application. Pot life is 2-3 hours. Super Accelerator S can be used to accelerate cure time at 6 oz. per gallon max.

Typical Equipment Set Ups

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 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.

Clean Up

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

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

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.

Cortec® Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

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.



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
http://www.cortecvci.com
http://www.cortecoatings.com



Distributed by:



Valdamark Limited
Unit 13,
30 The Downs
Altrincham, Cheshire, WP14 2PX,
United Kingdom.
valdamark@live.com
Tel: +44 (0) 161 706 0388

