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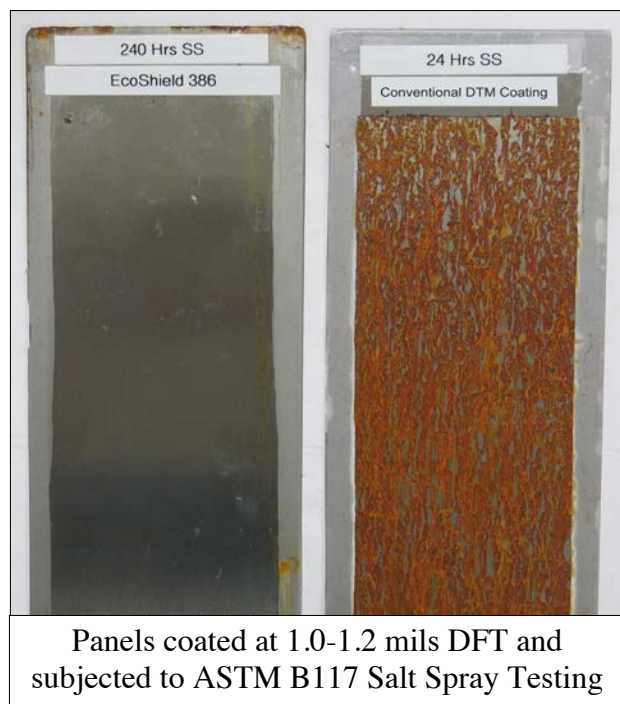
**Attention: Editor**  
**December 17, 2019**  
**PRESS RELEASE**



## Go Water-Based and VOC Compliant with DTM Coating Powered by NANO VpCI®!

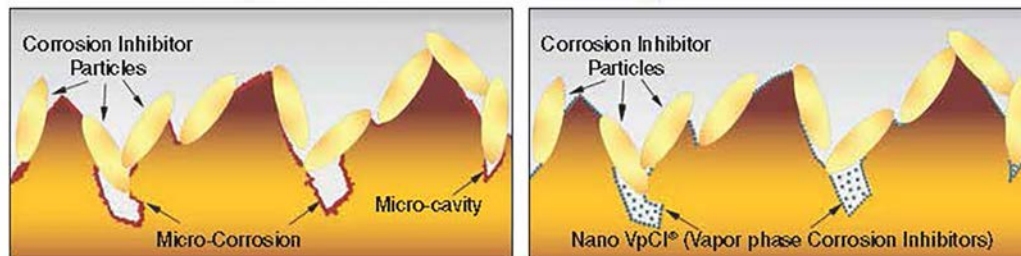
When it comes to finding a water-based coating for outdoor corrosion protection, VpCI®-386 is a great place to start. VpCI®-386 is a fast drying, water-based acrylic one coat system (topcoat) that can be applied DTM (direct to metal) for corrosion protection in outdoor unsheltered applications. It offers a variety of environmental and user benefits.

VpCI®-386 is a good alternative to solvent-based corrosion inhibitor coatings. VpCI®-386 has a relatively low VOC of 0.6 lbs/gal (72 g/L), well below the typical cutoff of 3.5 lbs/gal (419 g/L) for VOC compliance in many regions. As a water-based product, VpCI®-386 is



able to compete with many paints and zinc-rich coatings thanks to the power of Cortec's "NANO" VpCI® inhibitors. These inhibitors fight micro-corrosion by forming a molecular protective layer that follows the intricacies of the substrate's micro-cavities. This offers fuller inhibitor coverage than traditional sacrificial metal inhibitors, which leave gaps due to their relatively large particle sizes. Implementing VpCI®-386 allows users to lower environmental impact by reducing VOCs while also minimizing worker exposure to solvents and making coating cleanup easier.

### Traditional Coatings vs. Micro-Protective Coatings



VpCI®-386 is adaptable to a variety of applications. As mentioned, it can be applied DTM. It can also be applied as a clear coat on top of another coating, creating minimal change to surface appearance. This was beneficial for a Pacific military base that wanted to [protect Airfield Damage Repair vehicles](#) that were sitting in very corrosive conditions near the ocean. A low-gloss version of VpCI®-386 was applied as a clearcoat over the vehicle paint without altering vehicle appearance, while still providing protection in a way that allowed personnel to use the equipment at any time. In another case, an [Indonesian dealer of heavy equipment](#) applied VpCI®-386 Black and CAT Yellow to maintain the vehicles' appearance while providing corrosion protection in a seaside storage yard after conventional paint failed to provide the desired solution. After three months, VpCI®-386 had outperformed the conventional paint on tested areas, so the customer decided to do a full paint job on the equipment bodies using the custom tinted VpCI®-386 coatings.






As a permanent coating that can be welded over, VpCI®-386 does not need to be removed before final installment or use of the protected metal components. Although it is ideal to apply VpCI®-386 at the manufacturing site from the outset, it can also be applied farther down the line to

protect expensive metal assets that will sit for extended periods at storage sites. This was the case at a [power plant being built in the southern U.S.](#) in a corrosive environment of temperature and humidity swings. Custom-built smokestack sections from Asia had been delivered to the site almost two years ahead of time. VpCI®-386 was used to coat the ID (inner diameter) of the smokestack sections for interim protection in order to avoid construction delays. The coating met their needs for a product that was easy to apply and did not need to be removed upon installation.

VpCI®-386 is an excellent option for industries needing a water-based corrosion inhibitor coating. In addition to its corrosion protection benefits, VpCI®-386 minimizes changes to surface appearance, reduces VOCs, and minimizes worker exposure to solvents to present an overall friendlier profile for users and the environment.

Learn more about VpCI®-386 here:

<https://www.cortecvci.com/Publications/PDS/VpCI-386.pdf>



**CORTEC**  
CORPORATION  
Environmentally Safe VOC/MCP Technologies

**VpCI®-386 Water Based Acrylic Topcoat**

**DESCRIPTION**

VpCI®-386 is a fast drying, water-based acrylic top coat system designed for use on metal surfaces. It provides protection in harsh, outdoor, unheated 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. VpCI®-386 is weldable and can be used for long surface corrosion-free prior to welding. Can be methanol/most caustic cleans.


SDS: 8000-01-481-8897 (new only)

**PACKAGING & STORAGE**

VpCI®-386 is available in 5 gallon (19 ltr) pails, 55 gallon (208 ltr) metal drums, liquid totes, and bulk.

Keep product from freezing (winterize, using winterized version).

Product shelf life is 1 year.



**CHARACTERISTICS/TECHNICAL DATA**

Volume Solids	97%
Gloss (ASTM D523)	80+
VOCs (ASTM D3960)	0.6 lb/gal (72 g/l)
Viscosity	10-40 sec - Zahn #3
Penetration (ASTM D520)	100%
Spreading Rate	497 sq./gal @ 1.0 mils DFT 13.2 sq./mil @ 25 mils
Weight per Gallon	9.58 lb/gal (1.03 kg/l)
Flash Point	>200°F (93°C)
Recommended DFT	1.5-2.0 mils (15-20 µm)
Recommended WFT	4.8-6.6 mils (120-240 µm)
Dry to Touch	30 min
Dry to Handle	1 hr
Recoat Time	Dry to touch - 72 hrs, sand thereafter
Force Dry	15-20 min @ 180°F (82°C)
Film Coat	3-7 days
Salt Spray (ASTM B117)	168 hrs
Humidity (ASTM D1735)	1000 hrs
Adhesion (ASTM D3359)	5B
Flexibility (ASTM D522)	1/2" mandrel (1.27mm)

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

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Cortec® Corporation is the global leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001, ISO 14001:2004, & ISO 17025 Certified.

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