CORTEC CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

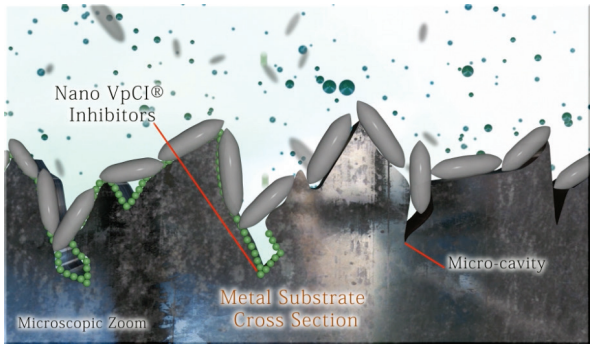
VpCI® Additives for Coatings and Paints

ISO 9001 • ISO 14001
ISO/IEC 17025

Simple. Clean. Efficient.

Cortec® Corporation's complete line of waterborne and solvent-based additives offers corrosion protection for ferrous and non-ferrous metals. VpCI® coating additives provide excellent performance with low viscosity and can be easily blended into your product at any stage of manufacturing. They cover systems such as acrylics, urethanes, epoxies, alkyds, and more.

Nano VpCI® molecules can penetrate deep into the micro-cavities of metal surfaces, protecting better than traditional pigment technology. By protecting these micro-cavities, VpCI® coatings additives help to reduce creep and blistering of the coating.

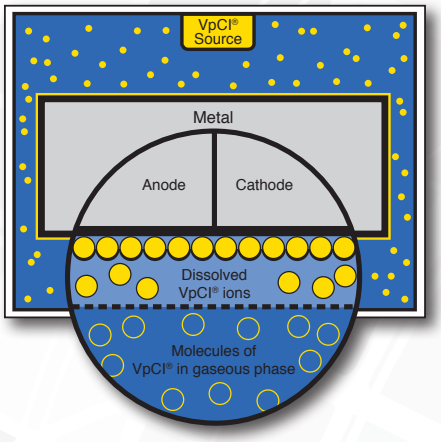


VpCI® coating additives offer a new world of protection possibilities because the proven VpCI® Technology offers exceptional protection at very low dry film thicknesses. This saves on labor and cost and allows for breakthroughs in the realm of environmentally friendly waterborne coatings.

Our researchers and engineers work together with your technical staff to give you an additive that is tailored to your formulation requirements and the end user's specific needs.

Benefits of VpCI® Coating Additives

- Vapor phase Corrosion Inhibition
- Organic and inorganic inhibitors
- Environmentally friendly
- Liquid phase wetting (preferable compared to pigment inhibitors)
- Added in let-down stage vs. grind for pigments stage
- Clear base
- Uses less inhibitor (0.5-2%) vs. 5-20% for pigment inhibitors
- Can work synergistically with other components in the formulation
- Long term, flash rust, and in-can corrosion inhibitor options



VpCI® additives form a thin molecular corrosion inhibiting layer that adsorbs on the surface of the metal, displacing existing water, chloride, or other corrosive contaminants on the surface. Corrosion protection is achieved beneath the coating at the contact phase, vapor phase, and the interphase.

Coatings Additives

	METALS PROTECTED							ATTRIBUTES						SOLVENT BASED					WATER BASED							
Product	Carbon Steel	Stainless	Galvanized	Aluminum	Brass	Copper	Bronze	Physical State	Transport Mechanism	Solubility	Degree of Protection	Typical Applications	Typical Dosages	Epoxy	2K Urethane	Acrylic	Alkyd	Polyester	Epoxy	2K Urethane	PUD	Water Reducible Alkyd	Styrenated Acrylic Emulsion	Carboxy Functional Acrylics	Water Reducible Polyester	Water Reducible Polyester
M-95	x	x	x	x	x	x	x	Liquid	Vapor Phase & Contact	Water	Long Term	Coatings	0.25-2.5%						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
M-109	x	x	x	x	x	x	x	Liquid	Vapor Phase & Contact	Solvent & Limited Water	Long Term	Coatings	1 - 3%	Yes								Yes				
M-110	x			x				Liquid	Contact	Solvent & Limited Water	Long Term	Coatings	1 - 3%	Yes	Yes		Yes									
M-118	x			x				Liquid	Vapor Phase & Contact	Water	Long Term	Coatings	1 - 4%									Yes	Yes			
M-119/ M-119LV	x			x				Water Emulsion	Vapor Phase & Contact	Water	Long Term	Coatings	1 - 3%						Yes	Yes		Yes	Yes			
M-168	x	x	x	x	x	x	x	Liquid	Vapor Phase & Contact	Solvent	Flash & Long Term	Coatings	2 - 10%	Yes			Yes									
M-235					x	x	x	Powder	Vapor Phase	Water & Glycols	Flash & Long Term	Coatings	0.5 - 1.5%			Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
M-240	x	x	x	x	x	x	x	Liquid	Vapor Phase & Contact	Water	Flash	Coatings	0.5 - 2%						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
M-241	x			x				Powder	Contact	Water	Flash	Coatings	0.5 - 1.5%						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
M-380	x	x	x	x	x	x	x	Liquid	Vapor Phase & Contact	Water	Long Term	Coatings	2 - 5%						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
M-381	x	x	x	x	x	x	x	Liquid	Vapor Phase & Contact	Water	Long Term	Coatings	2 - 5%						Yes	Yes		Yes	Yes	Yes	Yes	Yes
M-435	x	x	x	x	x	x	x	Liquid	Vapor Phase & Contact	Water & Oils, and few Solvents	Flash	Coatings	1 - 5%						Yes			Yes	Yes	Yes	Yes	Yes
M-5365	x	x	x	x				Liquid	Contact	Oil, Solvent	Long Term	Coatings	0.5 - 4%	Yes	Yes	Yes	Yes	Yes				Yes	Yes			

Inks Additives

	METALS PROTECTED							ATTRIBUTES						
Product	Carbon Steel	Stainless	Galvanized	Aluminum	Brass	Copper	Bronze	Physical State	Transport Mechanism	Solubility	Degree of Protection	Typical Applications	Typical Dosages	Typical Dosages
M-95	X	X	X	X	X	X	X	Liquid	Vapor Phase & Contact	Water	Long Term	Inks	0.25-2.5%	0.25-2.5%
M-150	X	X	X	X	X	X	X	Liquid	Vapor Phase & Contact	Water	Long Term	Inks	2 - 3%	2 - 3%
M-151	X	X	X	X	X	X	X	Liquid	Vapor Phase & Contact	Solvent	Long Term	Inks	2 - 3%	2 - 3%

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Cortec® Corporation

Quality Management System (ISO 9001 Certified)

World Class Product Offerings
An innovative producer of leading edge products.

World Class Customer Service
A positive, long-lasting impression through every link of our company.

World Class Environmental Commitment
Cortec® commits to continued development of processes and products that are useful, non-hazardous to the environment, and recyclable whenever possible.

An Ethical and Respectful Company Culture
Respect and treat our colleagues, customers, and vendors as we would our own family members.

Environmental Management System (ISO 14001 Certified)

Cortec's strong environmental concern is demonstrated in the design and manufacturing of products that protect materials of all kinds from environmental degradation. A strong commitment to produce recyclable products made from sustainable resources has been and will be our future policy. This brochure can be recycled.

Laboratory Accreditation (ISO/IEC 17025)

Cortec® Laboratories, Inc. is the only lab in our industry that has received ISO/IEC 17025 Certification, which ensures quality in recording and reporting data, as well as calibrating equipment within the laboratory.

LIMITED WARRANTY

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