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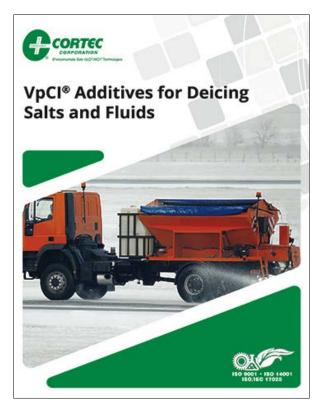




Cortec® Combats Corrosive Effects of Deicing Salts and Fluids in New VpCI® Additives Brochure

Often it is necessary to use corrosive seawater, brine solutions, or deicing chemicals for municipal and industrial applications, but these can create a major problem for any metals in the system. Cortec's new brochure, "VpCI® Additives for Deicing Salts and Fluids," offers additives to combat these highly corrosive fluids containing salts. VpCI® additives form a thin molecular corrosion inhibiting layer that adsorbs on the surface of the metal, displacing existing water, chlorides, or other corrosive contaminants on the surface.

These additives can be used in many applications where a high concentration of chlorides raises the risk of corrosion:



- Ballast tanks
- Deicing fluids
- Distillation towers
- Cooling towers
- Hydrostatic testing with seawater

Harsh marine or winter environments regularly expose boats, vehicles, or equipment to heavy doses of chlorides—either from naturally salty sea spray, or from road spray that contains deicing chemicals for winter road safety. This results in salt buildup on the vehicle body or equipment surface. If left untouched, salt buildup leads to heavier corrosion, rust, and vehicle deterioration. It is important to clean these chlorides off as soon as possible to minimize potential corrosion.



Cortec's new brochure offers a more effective way to do this with FlashCorr® VpCI®, a wash water additive that plays an important role in removing salt deposits from vehicle and equipment surfaces.



FlashCorr® VpCI® has a unique ability to neutralize and remove salt deposits such as sodium chloride and various deicing salts. It also protects against the risk of flash rust from washing. FlashCorr® VpCI® is highly effective, non-toxic, and environmentally safe.

"VpCI® Additives for Deicing Salts and Fluids" also offers protection for vehicles or equipment at risk for corrosion from the direct use of seawater or high salt brine solutions. In winter locations, where heavy use of deicing salts is common, Cortec® additive M-605 can be easily used to inhibit corrosion by adding at a low dose directly to the deicing salt or fluid. It is environmentally friendly, non-

toxic, nitrite-, chromate-, and phosphate-free, protecting multiple metal types.

Specialized versions of M-605 target corrosion caused by specific deicing fluids:

- M-605 is a powder additive designed for protection against NaCl based deicers
- M-605 L is a liquid additive designed for protection against MgCl₂ based deicers
- M-605 PS is a powder additive designed for protection against CaCL₂ based deicers



These additives conform to Pacific Northwest States (PNS) Department of Transportation requirements for additives to deicers and pass their corrosion tests when added to a deicer at a concentration level of 5% by weight. M-605 PS is especially unique as a USDA Certified Biobased Product that contains 98% USDA

certified biobased content. It is a powder version especially effective in calcium-chloride-based deicers. Cortec's VpCI® additives for deicing fluids can also be used as an inhibitor to brines in closed loop cooling systems, or in fluids such as seawater where there is an especially high concentration of salt.

Cortec's "VpCI® Additives for Deicing Salts and Fluids" brochure addresses an important need for protecting vehicles and equipment from corrosion in particularly extreme salt exposure conditions. Seawater, deicing chemicals, and brine are necessary evils that perform useful functions but promote corrosion in the process. Cortec's VpCI® additives counteract these corrosive elements in a user-friendly, environmentally friendly manner.

To read the entire version of this brochure, please visit:

http://cortecadditives.com/wp-content/uploads/2017/06/VpCI_Additives_Deicing_Salts_and_Fluids.pdf

For more information about Cortec[®] Additives, please visit: http://cortecadditives.com/

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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. Cortec Website: http://www.cortecvci.com Phone: 1-800-426-7832 FAX: (651) 429-1122