



EcoEmitter[®] Patent Pending powered by NANO-VpCI[®]



PRODUCT DESCRIPTION

EcoEmitter is a highly engineered device designed to provide corrosion protection for your most sensitive assets such as electronic and optical equipment and components. Each individual emitter will protect volumes up to 0.25 m³ (8.8 ft³). EcoEmitter is powered by NANO-VpCI, the latest advancement in vapor phase corrosion inhibiting technology. NANO-VpCI emit from the device and saturate the enclosure via diffusion, filling all void spaces and recessed areas with protective vapor molecules. These molecules are attracted to and adsorb onto metallic surfaces resulting in the formation of nanofilms, very thin microscopic molecular layers of corrosion protection. The nanofilms formed do not adversely affect or alter the appearance, conductivity, or optical functionality of the components protected. Studies have shown the ability for VpCI molecules to provide protection in the presence of corrosive species, (i.e. chlorides, water, sulfides) and displace them at the metal surface.

EcoEmitter was designed with the environment in mind in a concerted effort to reduce our carbon footprint. The polymeric cup has been redesigned to replace

polyethylene and is constructed from OK Biobased 3-Star rated resins containing 60-80% renewable carbon content. The active corrosion inhibiting powder is nontoxic and biodegradable. The traditional Tyvek[®] * membrane used on VpCI-105 and VpCI-111 emitters has been replaced with a breathable membrane constructed from 100% biobased fibers.

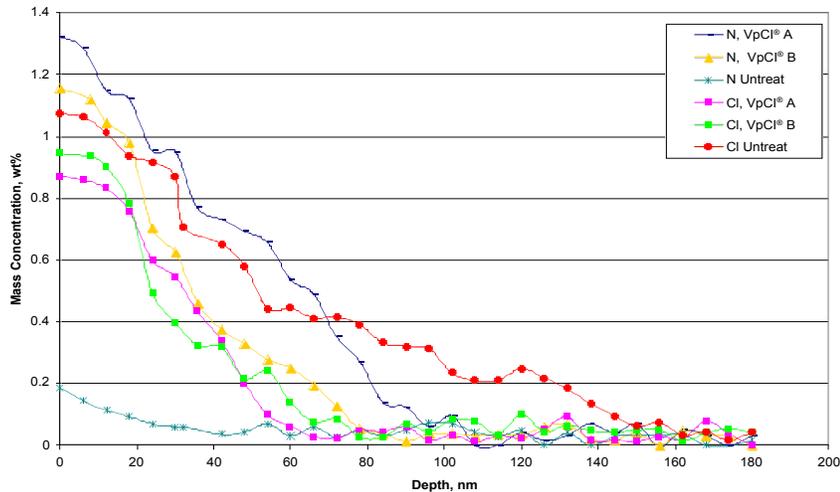
FEATURES

- Constructed from biodegradable and renewable materials
- Packaged in a convenient easy-to-use dispenser
- Economical to use
- Provides continuous corrosion protection for up to 24 months during operation and/or shutdown
- Effective in polluted and humid environments
- Does not interfere with electrical, optical, or mechanical performance
- Multimetal corrosion protection
- Quick and easy installation
- Non-toxic and safe to handle
- Compact and space-saving
- Free of nitrites, halogens, and phosphates
- No spraying, wiping, or dipping required
- VOC values meet Southern California Clean Air Act and other National and local regulations
- Self-stick back
- Self-stick date label

* Tyvek[®] is a registered trademark of DuPont[™]



XPS Depth Profile (Ar at 4 kV, 15 mA)



XPS depth profiling showing mass concentration weight percentage of chloride and nitrogen for test samples protected with Nano VpCl compared to an unprotected control sample.

METHOD OF APPLICATION

EcoEmitter is extremely simple and convenient to install. EcoEmitter should be installed as early as possible, preferably during manufacturing or assembly. Simply select a space within enclosed device where corrosion protection would be useful. Verify that the surface on which the device will be installed is clean and free of debris. Peel off the protective peel strip from the bottom of the device and attach it to the clean surface. The peel strip can be separated to reveal a self-adhesive sticker on which the installation and replacement dates can be noted. EcoEmitter can be installed in any position. For volumes greater than 0.25 m³ (8.8 ft³),

install more than one EcoEmitter. If the enclosure is not totally air-tight or if the access doors are opened frequently, replace the EcoEmitter more often than every two years. After periods of heavy maintenance, replace the emitter. For additional protection spray the enclosure very lightly with ElectriCorr® VpCl-238.

PROPERTIES

Appearance	White body with white breathable membrane
Protection	0.25m ³ (8.8 ft ³) / emitter
Standard size	Biobased body with breathable membrane 2.25 in. diameter x 1.27 in. H (5.7 cm x 3.2 cm)

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY SEALED

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

PACKAGING AND STORAGE

Product should not be exposed to temperatures of over 65°C (150°F). EcoEmitter is available in an easy-to-use dispenser packaged 10 emitters per unit. Refill packs are also available.

LIMITED WARRANTY

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