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## PRODUCT DATA SHEET

# M-151

FUNCTION	APPLICATION	FORM
Corrosion Inhibitor	Ink Additive	Liquid

## Product Description

**Cortec M-151** is a new Vapor Corrosion Inhibitor Ink Additive that will produce a multimetal VCI coating on paper or film backing material. This additive is usually mixed with compatible ink solutions at a 1:1 ratio and applied at a coating weight that is easily reached on most printing equipment. The resultant layer will produce a thin, non-penetrating coating on paper and film. This product will have an exceptional shelf-life and has solved corrosion problems associated with paper and film in the past.

The M-151 can be used to coat Post Consumer Recycle (PCR) products. A pinhole free coating needs to be applied and can be obtained by putting multiple thin layers down in a controlled manner. The resultant film has the typical VCI protection properties of other Cortec products. The new constructions produced with this coating are expected to be useful to many companies that now rely on heavy oils, greases and /or additional paper or film wrappings to provide corrosion protection. This new coating additive provides multimetal protection to metals including steel, galvanized steel, aluminum, copper, brass, silver solder, etc.

## Typical Applications

**Cortec M-151** is a solvent mixture that is compatible with a number of ink resins. It is mixed in a 1:1 ratio with an ink resin formulation and applied directly to the paper or film backing using gravure and/or flexographic printing machines. Drying is achieved by use of a warm air oven or with IR bulbs. The unused mixed coating solution should be properly disposed of after 30 days.

A minimum dry coating weight of 2-3 lbs per ream (3.27-4.90 g/m<sup>2</sup>) or 7-9 lbs per ream wet (11.43-14.78 g/m<sup>2</sup>) is recommended to achieve maximum shelf life. When additional procedures such as corrugating, laminating or further coating is required, a heavier coating weight is suggested. Also, in cases where a highly reactive metal is packaged for long term storage in warm humid climates, a heavier coating weight is recommended.

The solvent blend used in the M-151 is typically used for solvent based printing inks. A trial run using clear or pigmented resin solutions should be attempted before a full run is planned. In cases where there is a need for faster drying or wetting of film or paper surfaces, special solvent mixtures can be obtained as a custom product.

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### Typical Properties

Solids Content Weight(%).....	10-15
Weight per gallon.....	7.2-7.4 lbs/gal.
Solvent Composition.....	75% Ethanol
pH.....	7.8 - 8.0

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