



HIGH PERFORMANCE VCI PACKAGING

VCI-357

PRODUCT DESCRIPTION

VCI-357 is a saturation solution that provides multimetal vapor corrosion inhibitor protection to flexible packaging materials. This solution is used to produce a high-quality finished product which resembles the original paper surface and finish. This unique combination of organic vapor phase corrosion inhibitors is applied directly to paper, chipboard, corrugated and foam substrates using conventional coating equipment. A substrate coated with VCI-357 will, in most instances, conform to requirements of MIL-P-3420. VCI-357 is available as a water-based (VCI-357W) or as a water/ethanol-based (VCI-357A) solution. This high-technology product provides protection to many metals including steel, galvanized steel, copper, brass, silver, solder, and aluminum.

APPLICATIONS

VCI-357 is applied directly to the substrate with most common roll coaters, such as gravure, air knife or reverse roll. Drying temperatures are 180°-200° (82°-93°C). However, in some instances, drying may not be necessary as in a case of corrugated or chipboard processes. The minimum coating weight for all packaging material is 2 pounds dry VCI per 3,000 sq. ft. ream (3.2 g/m²). A coating weight of 3 pounds per ream (4.8 g/m²) is recommended to achieve maximum shelf-life or when additional production procedures, such as lamination, are required. In addition to kraft paper, VCI-357 is suitable for other flexible packaging materials such as corrugated, chipboard, cardboard and laminated/reinforced papers, foams, etc.

PHYSICAL PROPERTIES VCI-357A

Appearance	Clear amber liquid
Non-volatile Content	25-30%
pH	7.5-8.3(Neat)
Weight/Gallon	8.2-8.4 lb/gal (0.98-1.01kg/l)

PHYSICAL PROPERTIES VCI-357W

Appearance	Clear amber liquid
Non-volatile Content	20-25%
pH	8.0-8.6(Neat)
Weight/Gallon	8.7-8.9 lb/gal (1.04-1.07kg/l)



CORTEC
CORPORATION

Environmentally Safe VCI/MCI® Technologies