
Product Data Sheet

MONOCURE®

SERIES D46

DESCRIPTION: D46 Monocure is a **single-package, NVP-free, Ultra-Violet (UV) curable** ink specifically formulated for **high-speed** screen printing of pre-treated polyethylene and polypropylene containers. The extremely rapid cure-speed of D46 Monocure allows very effective cure of **higher opacity colors**. D46 Monocure has excellent tape adhesion and water resistance immediately after curing.

SUBSTRATES AND APPLICATIONS: D46 Monocure is especially recommended for use on polyethylene or polypropylene containers, particularly where tough, product resistant decoration is required. D46 Monocure may also be printed onto P.V.C. and some P.E.T. containers (D46 Monocure is not suitable for bi-axially oriented, injection-blow-molded P.E.T. containers, such as those used for carbonated soft drinks.)

NOTE:

Occasionally, the application of ink to certain plastic containers, such as P.V.C. and P.E.T., produces an ink/substrate laminate which will not meet brittleness or flexibility requirements. This effect, known as "stress-cracking", can result in cracking or shattering of the container during subsequent print handling, or after filling. It can be avoided by using less susceptible, thicker wall, more flexible containers and minimizing overall ink deposit.

NOTE: Pretest all substrates prior to use in production.

RESISTANCE PROPERTIES: When fully cured, D46 Monocure is resistant to most household and cosmetic products, detergents, motor oils and common solvents.

DRYING/CURING: The rapid cure of D46 Monocure makes it particularly suitable for modern, high-speed, UV container printing lines.

COVERAGE: Using a 390/inch (150/cm) mesh, one gallon of D46 Monocure will cover approximately 2,500 square feet.

SUBSTRATE PRE-TREATMENT: It is essential that polyethylene or polypropylene substrates are treated before printing. These substrates are chemically inert and have a very low surface tension. Only by "activating" the surface can adhesion of any coating be achieved. Pre-treatment of polyethylene/polypropylene containers is usually accomplished by briefly exposing (<1 second) the surface to a flame, preferably immediately prior to printing.

Pre-treatment of polyethylene/polypropylene surfaces may be assessed by their degree of wetting with calibrated surface-tension solutions. For best results, a surface tension in excess of 48 dynes/cm. is recommended.