



MANUFACTURERS OF FLEXOGRAPHIC  
& GRAVURE PRINTING INKS

**DIAMOND STANDARD**  
FREE-RADICAL U.V. INK SYSTEM

(Prefix MQF)

**DESCRIPTION**

A high quality economic UV curable free-radical ink system.  
Based on benzophenone (BP) and ITX to gain maximum cure and adhesion performance for industrial/non-food applications.  
The system has been developed to provide very high colour strength/gloss and cure performance.

**TYPICAL PROPERTIES**  
(FULLY CURED INK)

A high gloss, chemically resistant surface.  
100% compliance with Environmental Protection Act-VOC Free.  
Fast 'cure' speed – dependant on substrate & lamp configuration.  
High colour strength.  
Excellent wet & dry rub resistance.  
The inks in this range are suitable for overprinting.  
Low odour properties. (*Dependant on substrate & application - Not recommended for food packaging*).

*If the printed substrate is to be used for packaging, subsequently filled with odour sensitive contents, ensure that the typical odour of the print will not cause any adverse affect.*

**SUBSTRATES**

The system is suitable for printing a wide range of in-line corona treated plastic substrates such as PVC, PET, OPS, papers and foils.  
However, the system offers limited adhesion on polypropylene (with or without corona treatment).

*Before any commercial print run, Mirage Inks Limited recommend that, new or un-proven substrates be checked for compatability with the Diamond range.  
Assess adhesion, shrink, resistance, & in-roll storage (blocking).*

*Mirage Ink Technical Department should be consulted before printing any unproven substrate.*

**REDUCERS**

Normally no reducers are required and no addition should be made to the ink.  
Inks are supplied press ready as a complete system.  
Additions of solvent and other materials may adversely affect cure rate and should be avoided.  
A colourless medium is available if a reduction in colour strength is required.

**QUALITY ASSURANCE**

Products with the prefix and product name specified above are Quality Controlled to Mirage Inks Test Specification No.110 as described in the test manual.  
Details of all tests are available on request from our technical department.

**TECHNICAL DEVELOPMENT**

Mirage have full control over formulation (including manufacture of all pigment concentrates).  
This gives flexibility to gain maximum technical performance.  
This in turn then gives Mirage the ability to develop bespoke inks to suit individual customer needs where practicable.

Note:

Mirage Inks do not recommend this system for use with food packaging where migration is an issue.

All information contained in this data sheet is based on extensive laboratory testing at Mirage Inks. Technical performance of the inks can vary according to the conditions the product is printed under, of which we have no control over. Therefore we recommend the product be trialled fully to assess suitability for each customer's application. The product should also be assessed to account for all the variables within the process, such as all different substrates used etc.

The information given is supplied as a guide only with the properties achieved under laboratory conditions. Mirage Inks Limited strongly recommends that you satisfy yourself as to the suitability of the product with trials. Please consult our laboratory to discuss any different requirement.

As particular conditions of use and variations in quality of materials and substrates being used are outside our control, it is therefore not possible to guarantee the performance of our products.

Products supplied under this ink name / prefix, are best used within a six month period from the date of manufacture (as specified on the product label).

In-line with Mirage Inks Ltd ISO 9001 procedures, retained batch samples for any product supplied under this ink name / prefix, are retained & stored at room temperature for a period of six months from the date of manufacture.

Should the product be used outside of this six month period, Mirage Inks Ltd. have no reference sample for comparative & test purposes, so cannot investigate or be held responsible for any print related problems.

Mirage Inks Ltd will not accept liability for any claim arising as a consequence of a laboratory colour matching being offered to our customer in good faith, and then subsequently Mirage's customer failing to obtain approval from their customer prior to printing / production.