



## QUARTZ ULTRA PLUS

### CATIONIC U.V. INK SYSTEM

(Prefix QLT)

#### DESCRIPTION

A high gloss ultra violet curing Ink System for Flexo applications that is instantly converted to a solid using an acid catalysed process.  
A 'benzene free' system, which gives the highest degree of chemical resistance & faster 'cure' speed than other Quartz systems.

#### TYPICAL PROPERTIES\*

(FULLY CURED INK)

A high gloss and resistant surface.  
'Benzene' free  
Excellent solvent & chemical resistance\*\*.  
Excellent wet & dry rub resistance.  
Good taint and low odour properties.  
Continues to dark cure after initial reaction.  
Steam Shrinkage/ Pasteurisation resistance- **(NOT METALLICS OR FLUORESCENTS)**

\*Overprinting solvent, free radical and waterbased inks can cause serious failure and so specific tests will be required to identify acceptable working parameters - refer to Technical Department.

\*\*It is recommended that chemical resistance to specific materials be verified by Mirage Inks Limited Technical Department, as this will depend on the actual chemical, the substrate & the curing conditions.

Any inhibition of the UV cationic reaction, resulting in incomplete cure, (e.g. through environmental /substrate/processing conditions), can, in the presence of moisture, lead to the production of odorous by-products. It can also adversely affect adhesion & resistance properties.

#### SUBSTRATES

The system is suitable for printing a wide range of plastic substrates (OPP, OPS, Rigid PVC, Polythenes, papers and foils).

However, some additives and binders can inhibit or poison the curing reaction. Mirage Inks 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. It is supplied press ready as a complete system. Additions of solvent and other materials may adversely affect cure rate and should be avoided. A medium is available if a reduction in colour strength is required.

#### COLOUR RANGE

Available in a wide range of bright colours that demonstrate good general light fastness properties although care should be taken to ensure that the ink being used is suitable for the end use intended as prolonged exposure to light will necessitate the selection of special pigments. A high lightfast range can be supplied on request. Colours are matched under D50 lighting.

#### QUALITY ASSURANCE

Products with the prefix and product name specified above are Quality Controlled to Mirage Inks Test Specification N°92 (QLT series) as described in the test manual. Details of all tests are available on request from our technical department.

