

# 070 UV SERIES

## KAMMANN K 15 – 40



### Technical Data Sheet

### UV dry offset inks

#### 1. APPLICATIONS FIELDS:

Especially designed Waterless offset inks for Optical disc formats, such as CD, VCD and DVD.

Substrates may differ in their chemical structure or method of manufacture. A test for suitability must always be carried out before printing. Antistatic, Mould Release Agents and Slip Additives may have negative effects on adhesion, and should be detected and removed prior to printing.

#### 2. CHARACTERISTICS:

Waterless UV Offset ink developed for the printing process with cooled printing plates (Toray Plates). They have a medium tack and low toning properties. A special product test is recommended prior to production.

The inks of the 070 UV series are constitutionally free from toxic elements and solvents. The raw materials used meet with the limits stipulated by the EEC regulation EN 71 (Safety of Toys), part 3 (Migration of Certain Elements) of December 1994.

#### 3. RANGE OF PRODUCTS:

##### 3.1 Euro- Colours/ 4 –colour Process Printing Inks:

Euro-Yellow	070 UV 2130
Euro-Magenta	070 UV 3309
Euro-Cyan	070 UV 5281
Halftone Black	070 UV 9053

##### 3.2. Corresponding Screen printing Products:

Pre-Print White	900 UV 1336 CD
Overprinting Lacquer	960 UV 342

#### 4. ADDITIVES:

The 070UV ink series is ready to use.

#### 5. PROCESSING INSTRUCTIONS:

##### 5.1 Machine Parameter:

The temperature of the machine air cooling system should be about 14 +/- 1 °C.

##### 5.2 Offset Printing Plates:

The temperature of the plates should be about 16 +/- 1 °C.

#### 5.3 Curing Conditions:

The varying UV absorption of the individual colours results in a range of curing properties depending on colour and opacity. All colours of the 070 UV series can be cured by the use of medium pressure mercury vapour lamps (at 120 - 160 W/cm).

The optimum energy output is 200 - 250 Millijoule/cm<sup>2</sup>. UV curing is followed by a 12 hour post-cure phase after which the ink film is fully cured and has its final properties.

However, it must be noted, that low radiation intensity, excessive machine speeds or excessive film thickness can have a negative influence on the curing properties and adhesion. Un-cured prints are considered a hazardous waste. Therefore, it is recommended to cure misprints under the UV lamp as a matter of principle. After curing, spoilage can be disposed by conventional methods and may be incinerated without causing any difficulties.

#### 6. CLEANING:

Plates and Roller can be cleaned with the special cleaner recommended by Kammann.

#### 7. SHELF LIFE:

A shelf life of 12 months is guaranteed when storing the inks at 21°C and in the original packing container. At higher storage temperatures the shelf life will be reduced.

#### 8. PRECAUTIONS:

UV inks may cause irritations and can increase the sensitivity of the skin, possibly leading to hypersensitivity. Therefore, the use of disposable gloves and protective goggles is strongly recommended.

For further information on the safety, storage and environmental aspects concerning these products please refer to the Material Safety Data Sheet (MSDS).

Additional technical information may be obtained from our staff of the Technical Application Department.

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