

INKTECH

INNOVATION IN INK

PACKAGING INK SPECIALISTS

ALTO PRIME

WATER-BASED INK SYSTEM

Technical Data Sheet

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ALTO PRIME is a high-performance water-based ink for printing on to most grades of self-adhesive and water activated Paper Tapes.

ADVANTAGES:

- Excellent adhesion to paper tape surfaces.
- The ink provides excellent rub resistance, release and non- blocking effect when unwinding.
- Designed for optimum performance, requiring minimal adjustment and press side maintenance.
- Provides excellent colour stability with improved re-solubility and cleaning.
- The ink is supplied neat and can be diluted with water/medium to obtain the desired press viscosity and strength.
- Available from stock in a range of pantone colours or spot colours as required
- Low foaming and good substrate wet-out.

BACKGROUND:

ALTO PRIME has been formulated to offer a straightforward method of printing onto all printable paper adhesive tapes.

Examples of common grades include Ubis Kraft 4801, Ubis Ecopaper C-460, Magis C680, Fabo 435

and Magri Kraft FSC.

ALTO PRIME inks can be purchased as specific colours or as a base range allowing customers to mix their own tints.

PRINTING INSTRUCTIONS:

- For use on Siat L33 and L36 and other similar presses.
- Use an anilox roller with cell volume of between 4-12 cm³/m² for suitable results.
- Adjust the viscosity to suit press conditions. Typical viscosity for printing is 24-30sec Zahn 2.
- Turn on the Drum and get the surface temperature up to 40-50c.
- Turn top heater on cool.
- Press speeds between 50 and 100 m/min are achievable dependant on substrate, press, drying capacity and extraction.

DILUTION:

Standard:	Water
Retarder:	ALTO PRIME Retarder if you are experiencing any problems with drying in the hot season.

MACHINE SETUP:

Tape	Ink Type	Additive	Anilox Volume	Thinner	Retarder	Felt Wipe Y/N	Corona Treater	Heater 1	Drum Heat (Actual surface temp)	Speed M/Min	Heater 2	Heater 3
Paper	ALTO PRIME	Not normally*	8	Water	ALTO PRIME Retarder	N	N	30C	55C	100C	Cool Air	Cool Air

***On some occasions where ink coverage is high or on more difficult to print tapes an addition of ALTO ELITE HI RELEASE ADDITIVE (WBA1037649) (approx. 10%) may be required to aid release.**



ADDITIVE REQUIREMENTS:

On some occasions where ink coverage is high or on more difficult to print tapes an addition of **ALTO ELITE HI RELEASE ADDITIVE (WBA1037649)** (approx. 10%) may be required to aid release.

On rare occasions where foaming is seen (which can be specific to press or running conditions) **ALTO PRIME SNTIFOAM SOLUTION** is available.

HANDLING:

Printing inks need special care. Please refer to the Safety data sheets (SDS) before using.

- Keep inks in original containers and sealed with tight fitting lid.
- Wear protective gloves, clothing and safety glasses.
- Stir well before use.

STORING:

- Store above 10°C.
- Shelf life is 6 months, when properly stored in sealed containers at temperatures between +10°C and +35°C.
- Rotate stock to keep products fresh.
- **PROTECT FROM FROST.**



CLEANING:

- To clean the anilox, ink trays and printing plates use water or a mild caustic solution but do not return cleaning solutions back to ink.
- Clean the anilox, ink trays and printing plates while the inks are still wet. Cleaning of waterbased inks can be much harder if inks are allowed to dry.
- Dispose of any waste in accordance with local or national regulations.

TIPS FOR PRINTING:

- The speed of the print run may need to be adjusted for some colours due to the thixotropic nature of some of the pigments used to manufacture the colours.
- Some colours, as supplied, may not be resistant to sunlight (UV). If you require "lightfast" colours which are resistant to UV, this must be specified at the time of ordering.

THE MOST COMMON REASON FOR PRINTED PAPER TAPES BLOCKING OR TEARING, ESPECIALLY HIGH COVERAGE DESIGNS, IS INADEQUATE INK DRYING. TO AVOID BLOCKING AND UNWINDING ISSUES THERE MUST BE GOOD EXTRACTION ON THE MACHINE, WARM AIR DRYING AND AS LONG A WEB PATH AS POSSIBLE. IF NECESSARY ADD EXTRA AIR BLOWERS TO THE MACHINE.

TECHNICAL ASSISTANCE:

- Our experienced laboratory technicians can provide technical solution & further advice and if necessary, will customise formulations to your specific needs.
- The team also supply free pantone matching support if you require any colour please call/email and we will be happy to send a formulation for mixing.
- All colours are matched using the latest X-RITE PANTONE software and spectrophotometers.

Inks are not suitable for direct food contact. For more information about food contact status and product regulatory compliance please refer to our General Regulatory Statement.

CONTACTS:

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DISCLAIMER: March 2025. This information has been carefully compiled from experience gained in the laboratory and under commercial conditions. However, the product's performance and its suitability for the customer's purpose depend on the conditions of use and the material being printed. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. Since we cannot anticipate or control the conditions under which our products are used it is not possible to guarantee their performance. All sales are subject to our standard terms and conditions of sale. We would point out that the information contained in this leaflet is only a recommendation and may need to be altered to suit the conditions and efficiency of the equipment employed. INKTECH's products are not designed for use in conjunction with those of any other ink maker or similar supplier unless agreed to in writing.