INKTECH

INNOVATION IN INK

PACKAGING INK SPECIALISTS

NOVA LAMINATION

SOLVENT-BASED INK SYSTEM

Technical Data Sheet

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NOVA LAMINATION

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NOVA LAMINATION is a range of Nitrocellulose (“NC”) free solvent-based flexographic inks for use in lamination printing. They are solvent-based and designed for printing onto a variety of the most commonly used substrates. The NOVA LAMINATION ink range exhibits good off-press adhesion to most films (BOPP adhesion after 24hrs) and good bonds of the printed web to a polyolefin secondary web with both solvent based and solvent-free adhesives. NOVA LAMINATION inks are available as finished inks or as a base scheme.

ADVANTAGES:

- Good NOVA LAMINATION bonds on various substrates at 100% and 200% coverage.
- Excellent printability.
- Low levels of retained solvent when printed.
- Reducible with standard press-side thinners and solvents.
- Excellent compatibility with some of Inktech’s other ink systems (Nitrocellulose and Polyurethane based)
- Highly pigmented.
- Clean printing.
- Reduced press set-up times.
- Excellent storage stability.

PRODUCT SUITABILITY:

NOVA LAMINATION inks are suitable for the following substrate combinations when used with Multi-Lam White.

Primary web	Secondary web
Chemically treated PET	Polyethylene
AlOx Coated PET	Polyethylene
PVdC coated PET	Polyethylene
Treated OPP	Metalised OPP / Treated OPP / Polyethylene

NOVA LAMINATION ADHESIVES:

The printed films should be laminated with an adhesive specifically designed for the application. For example, Pure-Flex 946/C45 from AkzoNobel. The actual bond strengths achieved will depend greatly on the choice of substrate and applied film weights of both inks and adhesive. Therefore, it is recommended that rigorous tests are carried out before commencing any commercial trials. Inktech can provide assistance to confirm suitability however it is recommended that all ink / substrate / adhesive combinations are tested and are considered fit for purpose both before starting and during each print-run. The laminates should be allowed to cure as per recommendations by the adhesive manufacturer.

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HANDLING:

NOVA LAMINATION inks are classed as highly flammable. Suitable precautions should be observed to avoid ignition sources.

STORAGE:

5°C ⟷ 35°C

- Shelf life is 12 months, when properly stored at temperatures between +5°C and +35°C.

PRINTING CONDITIONS:

PRINTING VISCOSITIES

Inks must be thoroughly stirred and homogeneous before reducing with solvent.

The optimum printing viscosity depends on press and running conditions. Good results have been achieved with NOVA LAMINATION inks at the following viscosities:

Flexo	25 – 28 secs (Zahn cup # 2)

Reducing solvents

Fast	TSDA / Ethyl Acetate MIX 80:20
Normal	TSDA / N.P. Acetate MIX 80:20
Retarder	Ethoxy Propanol

WASH UP SOLVENTS

Standard wash up solvents can be used e.g. Alcohol / Ester blends.#

CYLINDERS / PLATES

NOVA LAMINATION inks are suitable for all types of anilox and cylinders (both chemical and mechanically engraved) and most commercially available standard plate types.

END-USE PRECAUTIONS:

Acceptable technical performance of NOVA LAMINATION ink is dependent on control of industry standard variables, some of which are:

- Control of film weight (inks and adhesives)
- Adequate drying on press
- Correct laminate structure
- Control of any migratable substances within the print, film or adhesives
- Suitable adhesive used in accordance with supplier recommendations
- Suitable levels of Corona Treatment

Choice and control of film weight, drying conditions, substrate and adhesives are technical requirements for which the Inktech Technical and Technical Sales team can provide assistance in the form of suggestions or support.

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CLEANING:

• Immediately clean the printing unit or any concerned machine parts with a suitable cleaning solution.

• Disposal of waste product and packaging should follow local and national regulations. Do not let any printing products or cleaning waste enter local drains.

TECHNICAL ASSISTANCE:

- Our experienced laboratory technicians are dedicated to providing innovative technical solutions to ink developments and if necessary, will customise formulations to your specific requirements, ensuring the optimum outcome for you.
- 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.

FOOD PACKAGING:

It is the ultimate responsibility of the food packaging supply chain to ensure packaged food is safe. With regard to potential migration of substances into food from the printed packaging, it is the responsibility of the printer/converter and food packager to ensure that no such migration occurs beyond permitted regulatory levels. To fulfil its responsibility within the supply chain Inktech will provide details to the customer of potential migratable components, where present in its inks, through the preparation and communication of a 'Statement of Composition' (available on request).

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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