



InkTec Eco Solvent Inks Technical Data



ESE Tech. Data_Europe_130515

GENERAL INFORMATION

InkTec EcoNova ID is the most advanced Eco Solvent ink to-date and is specially designed to be compatible with OEM inks for DX4 and DX5 head. Its formulation is well-matched to OEM inks in terms of colour and physical properties. It offers a wider colour gamut, excellent lightfastness and strong scratch resistance so that you can achieve similar printing results in comparison with OEM inks at a competitive price. In addition, it has been proved not to have any harmful chemical and VOC's in working environment.

MAIN FEATURES

- Easy switch over from original ink without flushing - Plug and Play
- Wider Colour Gamut - Outstanding image quality
- Strong Lightfastness - Less colour fading
- Excellent line sharpness - Less intercolour bleed
- Faster drying time - Enhanced productivity
- Superior scratch resistance - Various outdoor applications
- Excellent continuous printing - Stable ink flow
- No VOC's and odor - Better working environment
- Suitable for Heat Transfer Material (HTM) Process : Easy to decorate on cotton T-shirts

MEDIA COMPATIBILITY

InkTec's EcoNova ID has a broader media compatibility with substrates such as PVC Banner and Textile. It can be used for POP Displays, Exhibition Graphics, Vehicle Wrapping and many other purposes.

APPLICATIONS



Note: The information contained in this technical data sheet are based on our present experience and knowledge. In consideration of the various factors which can effect the results achieved in the final application, InkTec doesn't take any responsibility for an improper use of the product by the user which can violate or damage rights of third parties.

PRODUCT OFFERING

Colour	Model Name					Printer Compatibility
	440ml Cart.		1L Pack	1L Bottle	20L Bottle	
● Black	ESE-C440MB	ESE2-C440MB	ESE-P01LB	ESE-B01LB	ESE-B20LB	Roland Soljet Pro II SJ-540/640/740 EX Series Roland Soljet Pro III XC-540/540W, XJ-540/640/740 VersaCMM VP540, SP-300/540, VS-300/420/540/640 VersaART RS-540/640, RE-640, VersaSTUDIO BN-20 Mutoh Valuejet 1624/1324 Mimaki JV33-130/160, CJV30-60/100/160 (Reorder# : ESE2 Series)
● Cyan	ESE-C440MC	ESE2-C440MC	ESE-P01LC	ESE-B01LC	ESE-B20LC	
● Magenta	ESE-C440MM	ESE2-C440MM	ESE-P01LM	ESE-B01LM	ESE-B20LM	
● Yellow	ESE-C440MY	ESE2-C440MY	ESE-P01LY	ESE-B01LY	ESE-B20LY	
● Light Cyan	ESE-C440MLC	ESE2-C440MLC	ESE-P01LLC	ESE-B01LLC	ESE-B20LLC	
● Light Magenta	ESE-C440MLM	ESE2-C440MLM	ESE-P01LLM	ESE-B01LLM	ESE-B20LLM	
● Cleaning Solution	EECS-0001(220ml)			EECS01-01L		

OPERATING SPECIFICATION

- > Operating Condition : Approximately 15°C~35°C / Humidity 35% ~ 80%
- > Storage Condition : 5°C ~ 50°C (Out of direct sunlight)
- > Shelf life : 2 year

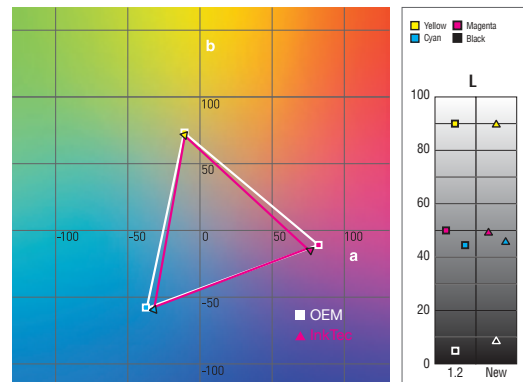
TECHNICAL COMPARISON DATA

1) Wider colour gamut

- High density pigments for extremely wide colour gamut
- Equivalent to the original OEM ink

Option

- > Printer : Roland XJ-740
- > Resolution : 540x720 dpi/
- > Profile : Non-profile
- > Media : Intec PVC
- > Measurement equipment : GregMacbeth Spectrolino (D50, 2°)
- > White line : OEM / Red Line : InkTec



2) Excellent line sharpness

- Intercolour bleeding is one of the crucial factors for expressing fine details.
- Less Blurred than OEM ink



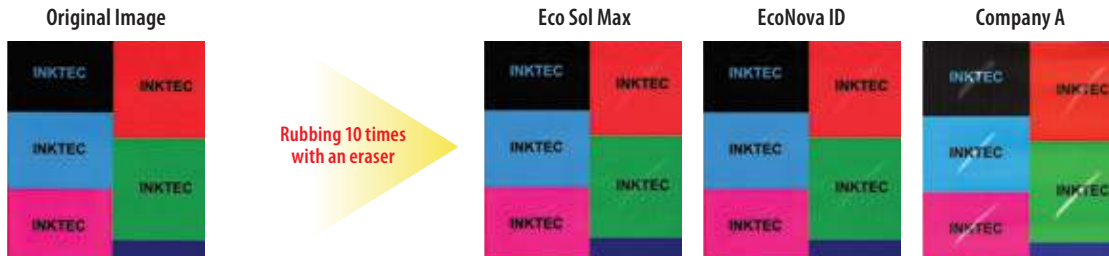
Test Option

- > Printer : Roland XJ-740
- > Resolution : 540x720 dpi
- > Profile : Non-profile
- > Media : Oracal PVC

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3) Superior scratch resistance

- EcoNova ID is specially formulated to be more durable than the previous ink.
- Rubbing test result indicates EcoNova ID ink has a similar durability to OEM.
- Less risk of scratching when the prints are applied for banner and fleet graphics.



Test Option

- > Printer : Roland XJ-740
- > Resolution : 540x720 dpi
- > Profile : Non-profile
- > Media : Oracal PVC

4) Environmentally friendly formulation

- RoHS Free
- REACH regulation pre-registered by KTR Europe GmbH
- Chloride can induce harmful influences to respiration system, skin and eyes. EcoNova has less chloride(Cl) formulation

EcoNova ID	OEM	Company B	Company T
630	1,417	881	11,968

The figure above is the average of 4 colours (Bk,C,M,Y)

5) Decoration process using Heat Transfer Material (HTM) and EcoNova ID

- Various decorative uses on garment
- Combination of EcoNova ID and HTM is the easiest way to decorate garments like T-shirts.
- EcoNova ID and OEM have the same results above, which indicates EcoNova is suitable for washable garments.

Colour fastness to washing

Material	Bk	C	M	Y
Discolouration	4	4	4	4
Acetate	4-5	4-5	4-5	4-5
Cotton	4-5	4-5	4-5	4-5
Nylon	4-5	4-5	4-5	4-5
Polyester	4-5	4-5	4-5	4-5
Acrylic	4-5	4-5	4-5	4-5
Wool	4-5	4-5	4-5	4-5

* The rating over 4 is normally suitable for garments.

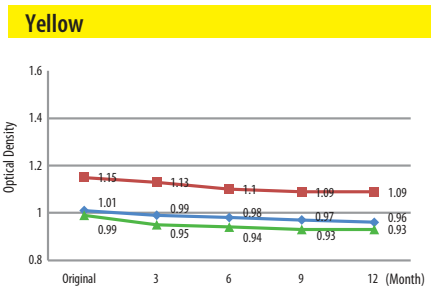
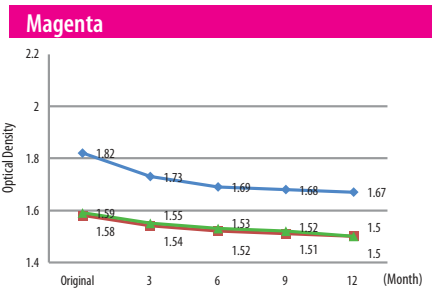
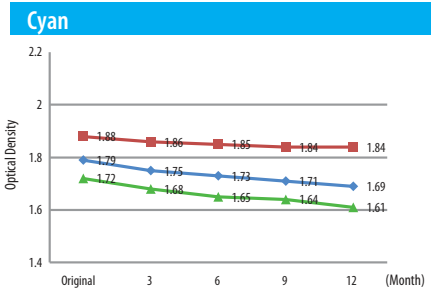
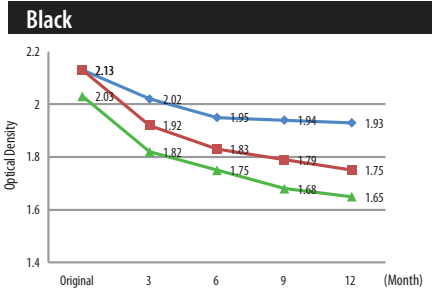
* The test result above is under the guarantee of KOTITI (Korea Textile Inspection & Testing Institute)

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6) Strong Lightfastness

- Similar properties to the original OEM
- Both EcoNova ID Black and Magenta are specially formulated to have stronger lightfastness than OEM.

N.B. The lower the Optical Density (Vertical) figures, the weaker the optical density



— EcoNova ID — Eco Sol Max — Company A



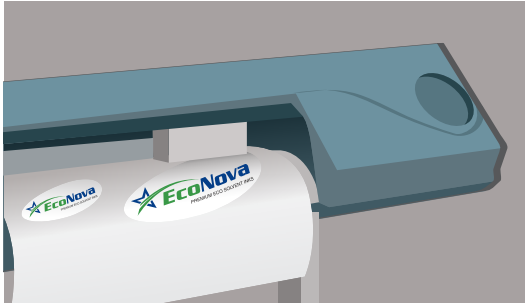
Test Option

- > Measurement Equipment : S3000(ATLAS)
- > Method : ISO 4892 Part 2, Method B(Outdoor)
- > Light Source : Xenon arc lamp
- > Test period : 1,000 hours(equivalent to 12 month)

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USER GUIDE OF DECORATION PROCESS USING HEAT TRANSFER MATERIAL(HTM)

> How to decorate garments using HTM with EcoNova ID



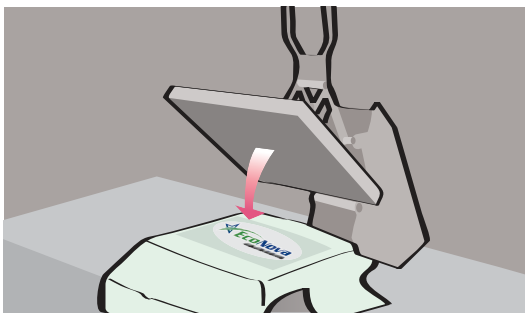
Step 1

Print the graphic you want to decorate on HTM.



Step 2

Cut the material and peel out the graphic by using a clear application sheet.



Step 3

Transfer it with a heat press at 152 degrees Celsius (305 degrees Fahrenheit) in 15 seconds.



Step 4

Remove application sheet hot.



Step 5

Finish the decoration work

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