



## 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.

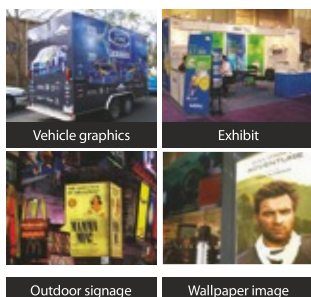
### MAIN FEATURES

- 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



**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

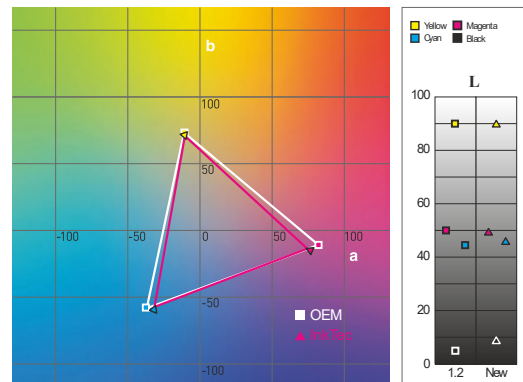
**TECHNICAL COMPARISON DATA**

**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

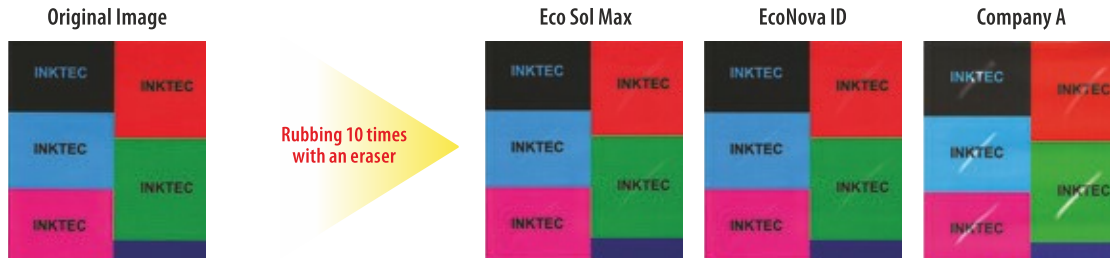


**Test Option**

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

### 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

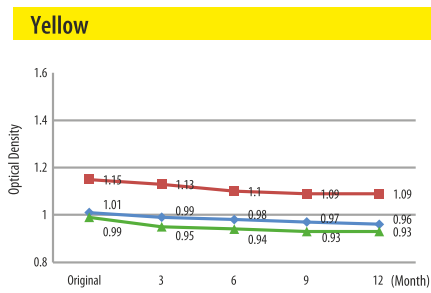
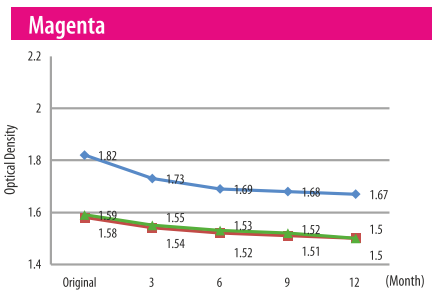
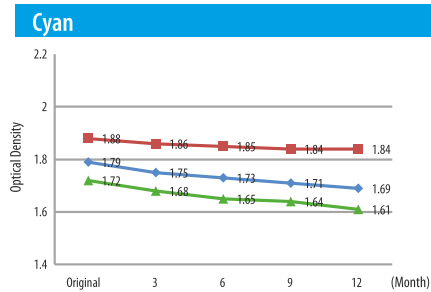
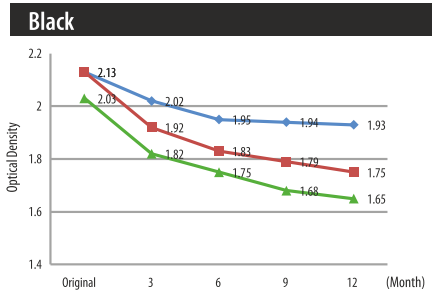
Material	Bk	C	M	Y
Discolouration	4	4	4	4
Acetate	4-5	4-5	4-5	4-5
Cotton	4-5	4-5	4-5	4-5
Nylon	4-5	4-5	4-5	4-5
Polyester	4-5	4-5	4-5	4-5
Acrylic	4-5	4-5	4-5	4-5
Wool	4-5	4-5	4-5	4-5

\* The rating over 4 is normally suitable for garments.

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

### 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

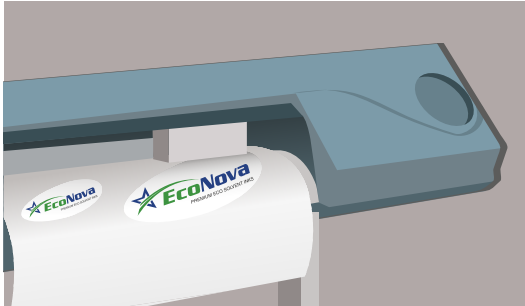


#### Test Option

- > 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)

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

> How to decorate garments using HTM with EcoNova ID



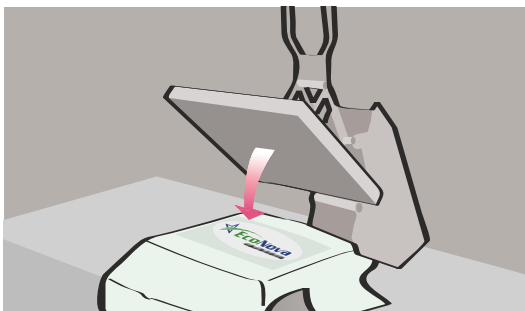
### Step 1

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