

White Eco-SOL INK For the Roland SOLJET SC-545EX Printer/Cutters

Overview

Introducing White Eco-SOL INK, the first and only eco-solvent™ ink that gives you the flexibility to print white on clear substrates. Roland White Eco-SOL INK represents the latest innovation in wide-format inkjet printing and is now available for the SC-545EX printer/cutters. Applications include window signs, packaging comps, labels and decals.

When purchased with the 54"-wide SC-545EX, White Eco-SOL INK transforms this SOLJET PRO II printer/cutter into a five-color (CMYKW) printer with a five-color print speed of up to 19.2 sq. ft./hr. on transparent material. For applications where white ink is not required, the SC-545EX can be operated in high speed (CMYK) mode, printing up to 315 sq. ft./hr.

The following overview highlights the features and improvements that makes White Eco-SOL INK an exciting addition to the Roland DGA family of inkjet products. These new features include:

- ✚ White ECO-SOL INK
- ✚ Three Ink Modes
- ✚ High Quality CMYKW Output

- ✚ Roland VersaWorks™ Software
- ✚ Automated Maintenance Reminders



White ink Under printing (Flood)



White ink Under printing (Highlight)

New Features

✚ White Eco-SOL INK

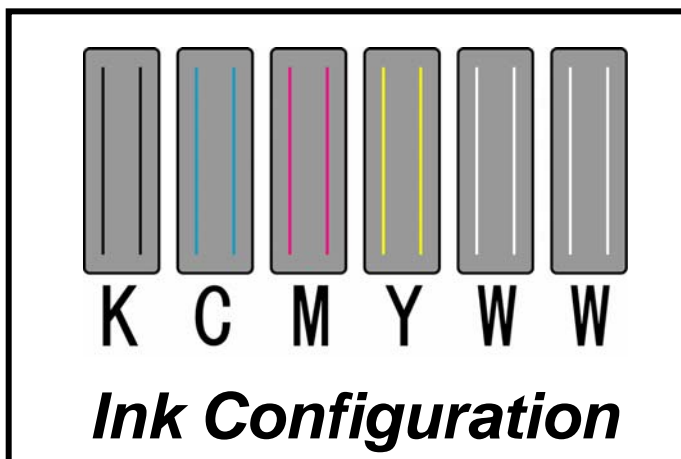
The new White Eco-SOL INK yields true 720x1440 dpi output on the SC-545EX and is well suited for printing onto transparent substrates for posters, glass graphics, package proofing, labels and decals. As the first printer to take advantage of White Eco-SOL INK, the SC-545 makes it possible to print high quality white gradations and create short run proofs at a substantially lower cost. Eco-Sol White ink is available only from Roland. It comes packaged in 220ml cartridges with a list price of \$119.95 per cartridge. This averages out to approximately \$0.55 per ml of white ink with an average printing cost of less than \$0.45 psf.



✚ Three Selectable Ink Modes

The SC-545 has been engineered for flexible production with the following ink mode options: five-color CMYK+White, four-color CMYK, or single-color White. Users can achieve faster output in both the CMYK mode (when white ink is not required) and in the White-only print mode without CMYK. The high speed CMYK mode enables output up to 315 sq. ft./hr. at 360x720 dpi resolution.

The SC-545 is the ideal platform for printing with white ink. The six head configuration allows Roland to dedicate two print heads to white ink thereby yielding higher density white fills. In addition, the repositionable pinch rollers makes it possible to rewind printed substrates enabling overprinting. Without this unique feature, white fills would be impossible to produce.



✚ High Quality CMYKW Output

It is necessary to print in the High Quality (720x1440) print mode when using white ink. In the White Ink Mode, the SC-545EX is capable of printing faster than 37.67 sfph. When printing in high speed color mode with a white fill the maximum speed is 19.2 sfph.

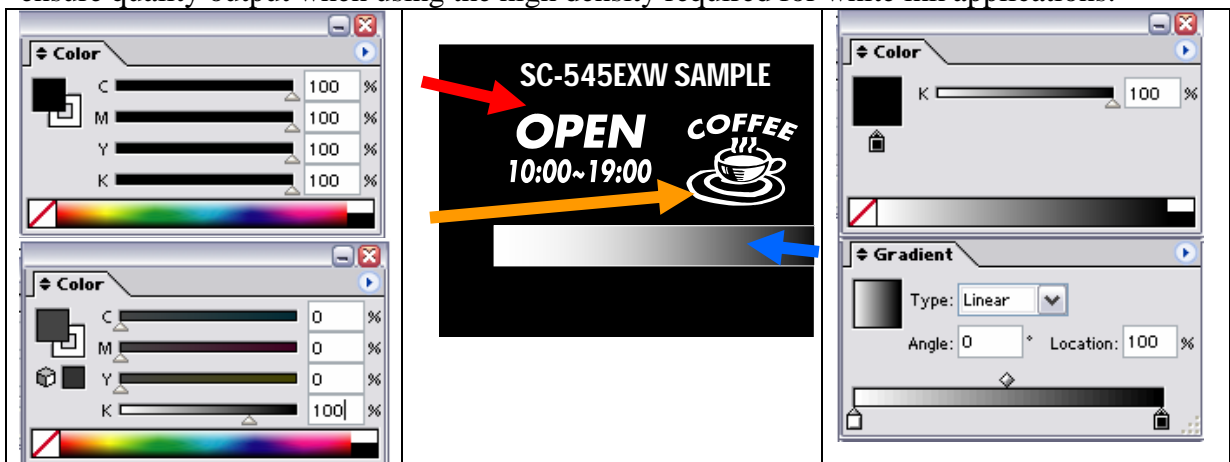
Print Speed of SOLJET ProII V SC-545EX with White Ink					
Model: SC-545EX					
Data Size: 10.76 ft2 (53 x 29.25 inches)					
Software: Roland VersaWorks					
Print Mode	Resolution	Color		White	CMYK+W
		Banner	Vinyl		
High Speed	360x720	315 sfph	170 sfph	n/a	n/a
Standard	360x720	86 sfph	86 sfph	n/a	n/a
High Quality	720x1440	56.7 sfph	53 sfph	37.67 sfph	19.2 sfph

Transparent films require higher coverage to ensure adequate DMax, therefore the typical ink consumption for a 17x24 sized white printed surface with 200% saturation is approximately 9ml.

✚ Roland VersaWorks™ Software RIP Included

White Eco-SOL INK and the SC-545EX were developed in tandem with VersaWorks™. This all-new RIP was written by Roland software engineers to ensure exceptional production output with unmatched ease of use. VersaWorks is built upon the genuine Adobe® PostScript® CPSI 3016™ engine. It supports true Adobe® PostScript® 3 and can be used on Windows XP and 2000 operating systems.

VersaWorks recognizes the unique properties of files created for white ink and optimizes those files for output to the SC-545. In addition, VersaWorks advanced profiles help ensure quality output when using the high density required for white ink applications.



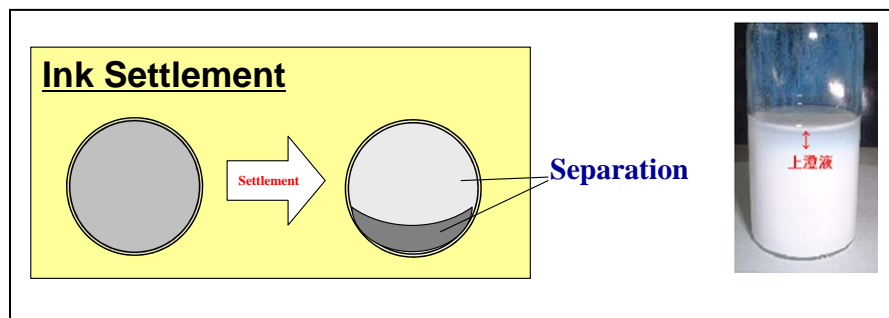
		White	White Gradation
SC-545EXW	White Only	CMYK400% or K=100%	Grey Scale (K)
	CMYK + WW	CMYK400% (100%each)	-----

Automated Maintenance Reminders

Due to the unique characteristics of white ink, additional care is required when installing and maintaining an SC-545 with white ink capabilities. White ink has a tendency to settle in the cartridge, making it necessary to agitate the cartridge before installing it in the printer and again before each use. In addition, it is necessary to perform routine ink system maintenance to ensure ink lines remain free of sediment.

The SC-545 includes two firmware-controlled maintenance reminders to ensure proper operation. If the printer has been idle for 12 hours or more, it will prompt for maintenance by displaying **[Ink Refreshing Normal]** on the control panel. If the printer has been idle for one week, it will display the maintenance prompt **[Ink Refreshing Full]**. Roland recommends following these prompts and allowing the cleaning process to take place. Normal cleaning is equivalent to a powerful clean on a typical EX model printer and will utilize roughly 15.5ml of ink per white cartridge. Full cleaning requires the use of a cleaning cartridge and will use approximately 42ml of white ink per cartridge.

In addition, the prompt for **[Ink Refreshing Full]** will be displayed after 2 weeks regardless of printer usage. Although Roland recommends adhering to all maintenance prompts, it is possible to cancel a maintenance cycle by pressing the printer's MENU key.



Summary

White Eco-SOL INK is a true industry first and a significant enhancement to Roland's award-winning integrated print/cut technology. By adding the flexibility to print white floods or highlights on transparent substrates, White Eco-SOL INK expands the range of applications for the feature-rich SC-545EX and allows you to take design and productivity to a whole new dimension. Combine this new feature with the utility and ease-of-use of Roland VersaWorks™, a Raster Image Processor tailor-made for the SC-545 and White Eco-SOL INK, and you will enjoy the full benefits of this unique solution.