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

Frequently Asked Questions

Q. Is there a special printer model for white ink?

A. White Eco-SOL INK is available when ordering a new SC-545EX with the White Ink Option. To obtain White Eco-SOL INK you will need to place an order for a new SC-545 and specify the White Ink Option. This will ensure you receive the two components for a production quality printer/cutter that uses white ink in addition to cyan, magenta, yellow and black. The addition of white ink allows you to print directly onto transparent substrates.

Q. What models are available?

A. White Ink is available only for new SC-545EX 54" printer/cutters. There is no option to convert an SC-540 or SC-545 that has been setup with CMYKLcLM.

Q. What is the cost of the White Eco-SOL INK and when will I be able to purchase the SC-545EX with this option?

A. The SC-545EX with White Ink Option will be available for purchase in June of 2005 and will have a list price of $29,995 for a new SC-545 EX printer. The cost of the White Eco-SOL Ink is $119.95 per 220 ml cartridge.

Q. Does the white ink require special ventilation?

A. No. Roland's white ink is an advanced Eco-SOL ink which makes it environmentally friendly, requiring no ventilation.

Q. How much ink comes with the kit and how much will I use in my printer?

A. The white ink kit ships with four white ink cartridges that contain 220ml each. This is enough to supply the two print heads for a CMYKWW configuration. Your printer will now be configured as a five color printer with four white cartridges that feed ink to two white print heads.

Q. Do I have to use special media with white ink?

A. The SC-545EX with White Eco-SOL Ink can print on a wide range of media including uncoated banner and adhesive-back vinyl. However, the printer is not limited to these substrates. Because the printer offers white ink capabilities, it is also possible to print on a wide variety of translucent materials including coated and non-coated substrates.
Roland's complete line of media including Eco-SOL Media (ESM) provides ideal substrates for the diverse applications that can be produced using the SC-545EX.In addition, the printer can produce stunning output using many of the other Roland media including matte and paper and heat transfer material from Roland's Piezo Certified Media (PCM), SOLJET Certified Media (SCM) and Performance Guaranteed Media (PGM) line-up. Please visit our website (www.rolanddga.com) for a full list of compatible Roland media.

Q. What is the average running cost (ink and media) using white ink?

A. The total cost per square foot varies depending on media, ink configuration, image density and printer speed. For average density images, at 200% saturation, the average white ink cost is less than $0.45 per sqft. For higher saturation, full coverage images (Images with complete white floods) the average ink cost per square foot can be $1.50. The Roland Certified media will be available for as low as $0.40 per square foot.

Q. Do I need new profiles if I already have a PRO II or PRO II V printer?

A. Yes. Due to the new white ink configuration options with white ink, new profiles will be needed. Profiles for Roland media will be shipping with the printer and available from the Roland website. Please consult our website for a list of available profiles. (www.rolanddga.com)

Q. How fast is the SC-545EX with the White Ink Option Kit?

A. The SC-545 has a maximum speed of 160 sfph in 4 color mode. However the special characteristics of white ink make it necessary to print using the high quality mode at 37.67 sfph using the white only mode. Maximum printing speed using 5-color (CMYKW) is 19.2 sfph. Please refer to the chart below for a full breakdown of speeds for 4 and 5 color printing.

Print Mode	Resolution	Color		White	CMYK+W
		Banner	Vinyl		
High Speed	360x720	160 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

Q. What is the print resolution when using white ink?

A. The maximum resolution of the SC-545 when using white ink is 720x1440 DPI. When printing with CMYK only the printer has a maximum resolution of 1440x1440.

Q. What is the maximum width of media that the SC-545EX can accommodate?

A. The maximum media width is 54" with a maximum print width of 53.56".

Q. How do I connect these printers to my computer?

A. The SC-545 comes standard with a 10/100 BASE-T Ethernet port. The Roland PrintServer software and user guide is included with every printer for simple Ethernet setup.

Q. How many print heads does the white ink occupy in my SC-545?

A. The SC-545 has 6 in-line Piezo printheads fed by twelve ink lines. When configured with white ink, two print heads are used for white. This configuration allows for two 220ml cartridges of each color (CMYK) and four 220ml cartridges for white ink.

Q. Do I need to add heaters to print White and CMYK?

A. The SC-545 has one media heater to aid in pre-heating, printing and ink drying functions. This heater works in conjunction with the aluminum platen to efficiently conduct heat and help minimize static build-up. We have been able to print full density using CMYKW without the need for additional heaters. However, certain media may require additional heaters to adequately dry the white ink layer prior to overprinting with CMYK. Currently the Benes Online Dryer is the only

additional heating unit that has been tested. Please contact your Roland Authorized Dealer for additional information.

Q. Can I use the RIP that came with my printer to print white ink?

A. Yes. The SC-545 ships with the Roland VersaWorks software. This robust software RIP written by Roland allows the printer to achieve the highest print quality while integrating advanced layout and workflow features. In addition, VersaWorks gives you the capability to print with CMYK and White, CMYK only or White only. A full description on these modes is available in Roland's White Ink Workflow document.