

VS-640 VS-420 VS-540 VS-300 SPECIAL COLOR INK GUIDE

(Metallic Silver & White)

When you use metallic silver ink and white ink, be sure to read this first.

This document describes the characteristics of special color inks (white ink and metallic silver ink) for VS-640/540/420/300, the important notes on the usage of these inks, and the maintenance and printing method in using these inks. For other information, refer to the VS-640/540/420/300 Setup Guide and User's Manual.



Roland DG Corporation

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What This Document Assumes

Before performing any operations described in this guide, make sure that all the following preparations have been complete.

- > Assembling and installing the VS-640/540/420/300 (it is called, "This machine" at the following) unit
- > Installing VersaWorks on your computer, and connecting the computer to this machine via a network

Related Manuals

Read the following documentation for information about setting up this machine and VersaWorks.

1) Setup Guide

This manual covers details about how to use this machine, including how to set up the printer and where to locate the printer, etc. Be sure to read this manual.

2 User's Manual

This manual describes operation methods in detail. After you have read Setup Guide, be sure to read this manual.

③ VersaWorks Quick Start Guide

Chapter 1 of this manual, "Setting for VersaWorks," provides you with instructions necessary to perform printing with VersaWorks, including how to install the software. Be sure to read this chapter following the above "User's Manual.

You are also recommended to read Chapter 2, "Getting Started," to become familiar with how to use this program.

VersaWorks Online

This document describes the important notes to use the metallic silver ink and white ink as well as the basic printing method using these inks. You can get the latest information about Roland VersaWorks and the information on printing methods requiring more complex settings by viewing VersaWorks Online. If you want to learn more about the features of Roland VersaWorks, or if you want to use metallic silver ink and white ink more effectively, be sure to visit VersaWorks Online.

URL : http://dg4.roland.co.jp/en/RVW2forWeb/index.html

VersaWorks Online can be displayed by clicking [help] - [VersaWorks Online] from the main menu.

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Important: Characteristics of Inks and Important Notes

The usage and handling of white ink and metallic silver ink involve some important considerations that do not apply to ink of other colors. Be sure to familiarize yourself with the characteristics of the inks before you use them.

White ink and metallic silver ink precipitate.

If they are allowed to stand, the precipitates in them may solidify and cause clogging of the print heads or other malfunction. Be sure to observe the cautions in this manual.

Maintenance must be performed.

- Always keep the main power switched on. If the main power is switched off, the automatic maintenance function stops working, and it may result in malfunction.
- > We recommend that you operate the printer at least once a week.
- If the printer is left unused for a long period of time, ink precipitation may occur, causing unstable ink discharge, which may result in dot drop-out, etc. In such cases, the precipitated and solidified ink needs to be cleared.
 - P. 50, "When Dot Drop-out etc. cannot be corrected"

Drying inks

> After output, allow the ink to dry sufficiently. Note that white ink and metallic silver ink in particular require printing at a high density, and so are more difficult to dry than CMYKLcLm inks.

We strongly recommend lamination.

Depending on conditions, the weatherability of metallic silver ink and white ink may be inferior to that of CMYKLcLm inks. Therefore, laminating is strongly recommended.

Before Starting the Day's Work

- Remove just the white and metallic silver ink cartridges, shake them gently, then reinsert them.
- You do not have to shake the cyan, magenta, yellow, black, light-cyan, and light-magenta ink cartridges every day, but be sure to shake them when you install new cartridges for these colors.

The ingredients in white and metallic silver inks tend to settle. Each day, before starting the day's operations, be sure to carry out the above steps. Allowing the ink to stand without carrying out these steps can cause the settled material to harden, resulting in malfunction or other problems.

Using the Middle Pinch Rollers in Printing and Cutting

Since metallic silver ink and white ink are difficult to dry, the middle pinch rollers will smudge the printed surface when printing and cutting are performed. Thus, when you perform printing and cutting using metallic silver ink and/or white ink, secure the media in place using only two pinch rollers on the right and the left. However, some types of the media may partially float and it may cause bad effect on printing, feeding and/ or cutting. Use the media after confirmation of the nature of your media.

Important Notes in Using Transparent Media

Loading transparent media

- Set the [EDGE DETECTION] menu item to "DISABLE". Transparent media cannot be loaded unless this setting is made.
- Ensure a margin of at least 75 mm from the leading edge of the media to the printing- or cutting-start location.

Important notes on the amount of media remaining

When you use transparent media, the presence of media cannot be detected. In such cases, printing operation does not stop when the media runs out, and there is a chance that the platen or the like may become soiled with ink or that ink may get inside and damage the machine. If media runs out while printing is in progress, immediately press (PAUSE) to stop printing.

Using the middle pinch rollers

The middle pinch rollers scratch media slightly, and on transparent media such scratches can be very noticeable. Also, the middle pinch rollers will smudge the printed surface when transparent media is pulled back after printing. When you use transparent media, secure the media in place using only two pinch rollers on the right and the left.

Automatic crop-mark detection

- >Automatic crop-mark detection does not work with transparent media. In such cases, perform alignment manually.
 - ☞ "User's Manual"

Important Notes on Using Media Take-up System

Since metallic silver ink and white ink are difficult to dry, if you use the media take-up system (at your option), media and/or the printed surface may be smudged depending on the type of media you use. If you use the media take-up system leaving the middle pinch rollers removed, some types of the media may not be taken up normally and/or cause bad effect on printing, feeding and/or cutting quality as well as partial float of the media. Be sure to use the media take-up system on confirmation of the nature and compatibility of your media.

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Starting VersaWorks

On the computer you are using, start VersaWorks. For information on how to start the program, see the Roland VersaWorks Quick Start Guide. After starting the program, go to the upper left of the main screen and check to make sure that "Model (or Nickname) of Your Printer" is displayed, and that "Status" is set to "Ready to Print."



Creating a Folder for Saving PS Files

Before you actually print an image you draw using application software such as Adobe Illustrator, it is necessary to save the image as a PS file(s). And then, you can print the image by loading the PS file(s) on VersaWorks. Because of this, you should create a folder for saving PS files in advance. It is recommended to locate the folder in the root directory on your computer's local disk.

Procedure



On the [Organize] menu, click [New Folder]. (Or on the [File] menu, click [New], and then click [Folder].)

Enter the name for the folder, and then press the Enter key.

Here you name the folder "MT-WH_print", for ex-

Making the Printer Settings and Loading Media

When Using Transparent Media

When you are using transparent media, make the necessary printing settings on the printer and load the media accordingly.

Procedure



Press (MENU) and make the following settings. [EDGE DETECTION] to "DISABLE."

- **2** Load transparent media into the printer.
 - > When the media warps or partially floats, ensure a margin of about 200 mm from the leading edge of the media to the printing- or cutting-start location.
 - > Be sure to use the media clamps when you load media.

When Using Media Other Than Transparent Media

Load the media using the method described in the User's Manual.

Basic Approach for Creating Printing Data

When you're printing using metallic silver ink and/or white ink, you create the printing data using a spot color.

When Using Metallic Silver Ink

When you print using metallic silver ink, you can create the printing data according to the two methods below.

- Specify the spot color so as to use only the metallic silver ink. Specify the spot color named "RDG_MetallicSilver" to the areas you want to print using the metallic silver ink.
- Specify the spot color from the exclusive metallic color special colors library. From the exclusive metallic color special colors library, select the special metallic color (spot color) to be

When Using White Ink

Specify the spot color named "RDG_WHITE" to the areas you want to print using the white ink.

used which is the combination color of CMYKLcLm ink and metallic silver ink.

Creating Data for Printing

Create the data for printing using the metallic silver ink and white ink.

The program used to create the printing data is Adobe Illustrator CS3, in this section. For detailed information on drawing methods and how to work with palettes, refer to the documentation or online help for Adobe Illustrator CS3. If you are using another version of Adobe Illustrator, operations may be somewhat different from those explained here.

l_{ullet} Open the exclusive swatch library.

At the swatch palette menu, select [Open Swatch Library], then [Other Libraries]. The "Select Library" window appears.

The swatch palette is displayed by going to the menu, selecting [Window], and then selecting [Swatch].



② ①Open folders in the order of [Computer] (or [My Computer]) → [Local Disk (C:)] → [Program Files] → [Roland VersaWorks] → [Swatch] → [Illustrator], then select "Roland VersaWorks.ai"

Depending on the settings of your computer, the extension ".ai" might not be shown.

2 Click [Open].

The swatch library containing "RDG_MetallicSilver" and "RDG_WHITE" is displayed.



Open the same folders as in step 2, and then select "Roland Metallic Color System Library.ai."

Depending on the settings of your computer, the extension ".ai" might not be shown.

2 Click [Open].

The swatch library is displayed which is containing the "metallic color" created by mixing the metallic silver ink and CMYKLcLm ink.





2. Create the illustration, and specify the spot color that matches the color you want to print.

1 Create the illustration.

Be sure to draw the illustration in the CMYK mode.

Specify each spot color that matches the color you want to print.

Desired ink or color	Spot color name
Metallic silver ink	RDG_MetallicSilver
White ink	RDG_WHITE
Metallic color	RVW-MT-Silver, RVW-MT-Bronze, RVW-MT-TitanBlack, etc.



POINT!

Using the metallic silver ink, you can perform the blend print and the layered print by combining the ink with the CMYKLcLm ink.

P. 16, "Blend Print and Layered Print (Metallic Silver and CMYKLcLm)"

3. Create the PS (PostScript) file.

0



①Select [Print] from the [File] menu.

②Select [Roland VW].

When a nickname is set, or when more than one printer is connected, select "Roland VW_(the nick-name of the printer used for output)."

③Click [Setup].

4Click [Continue].

2

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①Turn on the [Print to file] option.

②Click [Preferences].

③Click [Advanced] in the [Layout] tab. For Windows 2000: In the "Print" dialog box (the window at the very top of this page), go to the "Layout" tab and click [Advanced].

(4) Click the down arrow to the right of the [Paper Size] box, and then click [PostScript Custom Page Size] from the list that appears.

(5) For "Custom Page Size Dimensions," enter the values in the "Width" and "Height" fields.

Enter values for the same size as the illustration you created in step 2_{\bullet} .

Click [OK] three times to close the "PostScript Custom Page Size Definition," "Roland VersaWorks Advanced Options," and "Printing Preferences" dialog boxes. The "Print" dialog box returns.

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Optices Optice	Setup Marks and Ble Output Graphics Color Manage Advanced	Printer: Roland/W PD: Default (Publick Versions) General Copies: 1 Cotate Prevens Order Page: All Raige Size: Default Publick Pages Size: Default porter Version
Control Scale	Setup Marks and Ble Output Graphics Color Manage Advanced	Pritter: Roland/W PD: Default (Poland Versivers) PO: Default (Poland Versivers) Poland Copies: 1 Copies: 1 Copies: 1 Copies: 1 Copies: 1 Polane: Pola
Contor Scale Fit to Page Custom Scale 2 100 Height: 100	Setup Marks and Ble Output Graphics Color Manage Advanced Summary	Pritter: Roland/W PD: Default (Poland Versivorks) General Copies: 1 Coluite Reverse Order Plage: All Range: Stud Black Roge Motia Size: Defined by Dr.Ner With: 76.0942 m Height: 97.9942 m Crientation: @ @ @ @ Transverse connerse
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Custom Scale	Setup Marks and Ble Output Graphics Color Manage Advanced Summary	Prite: Rolad/W PD: Ceffault (Publick Versions) General Copies: a.l Copies: a.l Rage:
2	Setup Marks and Ble Output Graphics Color Manage Advanced Summary	Prite: Rolard/W PD: Orfuel (Polard Versions) General Colors: 1 Colors: Reverse Order Page: 1 Colors: Reverse Order Page: Sic Dark Raps Moda Size: Defined by Driver With: 76.0942 m Verbia: Contraction: 0 0 0 0 1 17.0042 m Verbia: Polard: Verbia: 0 Printube: Layers Colors: Verbia: 0 Printube: Layers Color: 0 Printube: 0 Printube: Verbia: 0 Printube: 0 Pri
	Setup Marks and Ble Output Graphics Color Manage Advanced Summary	Pritter: Roland/W PritLeger: Visible SpreitherLayer: Option:
Save Preset Setup Print Car	Setup Marks and Ble Output Graphics Color Manage Advanced Summary	Pritter: Roland/W PritLeger: Visible SpreitherLayer: Option:

1Click [Print].

②Click [Print].



6 Open the folder you saved to and make sure the file has been created.

Blend Print and Layered Print (Metallic Silver and CMYKLcLm)

Using the metallic silver ink, you can perform the blend print and the layered print by combining the ink with the CMYKLcLm ink. By this means, you can realize the metallic expressions that cannot be made only with the CMYKLcLm ink. The printing methods are different between the blend print and the layered print, and so are the metallic impressions of the CMYKLcLm colors. Select and use the types of printing to suit your taste.

- ☞ P. 22, "Blend Print (Metallic Silver + CMYKLcLm)," p. 24, "Layered Print (Metallic Silver ⇔ CMYKLcLm)," p. 26, "Layered Print (CMYKLcLm ⇔ Metalic Silver)"
- * When you perform "Printing with White, Metallic Silver, and CMYK Ink" (page 30), the printing method is limited to the blend print.

POINT!

In performing the blend print or the layered print, you can specify the colors from the metallic color special colors library. However, if you specify the metallic colors with the same names for the blend print and the layered print, the tones of the colors are different between them. We recommend that you check the tones of the colors by performing the test printing or printing out the Metallic Color Chart.

Seeing the metallic color chart for the layered print, you may feel a slight inconsistency between the names and the tones of the colors. This is because the colors listed in the Metallic Color Chart are named based on those for the blend print.

P. 36, "Printing a Metallic Color Chart"

Blend Print

(Image of printing method)



Layered Print

(Image of printing method)





Chapter 3 Printing

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	Starting the Print Operation	35
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Printing Only with Metallic Silver Ink

This section describes how to perform printing only with the metallic silver ink. To use the metallic silver ink in printing, you need to use the printing data where the use of the metallic silver ink is designated. If the printing data have the portion designating the use of other colors, with the settings described in this section, you can print with the metallic silver ink only the area of the image which has been designated to print with the metallic silver ink.

P. 10, "2-3 Creating Printing Data"

Procedure

Make sure that you have finished making the preparations for VersaWorks, getting the printer ready, and creating the printing data (\$\arrow\$ page 7, "Chapter 2 -- Getting Ready").



4	File Format	Click 🔛 .
	Quality	Turn on the [Convert Spot Color] option.
6	Printer Cot Controls	Click 🔊 .
	Layout Cutting Options Operation Mode : Print Only Cut All Paths Print & Cut Cut All Paths Reprint & Cut Cut All Paths Cut All Paths Cut Only Cut District Reprint Print & Cut Cut Only Cut Only Cut District Reprint Print	In [Operation Mode], select the operation of the printer.
6	Variable Data	Click [OK] to close the "Queue A Proper- ties" window.

This is the end of the print job setting. To start printing, go on to page 35 "Starting the Print Operation."

Only the settings necessary for the use of the metallic silver ink are described in this section. For other settings, refer to the online help provided for VersaWorks.

* If you select [CMYKLcLm (v)] for [Mode] in the procedure ③, only the area of the image where CMYK is specified in the printing data is to be printed.

Blend Print (Metallic Silver + CMYKLcLm)

This section describes how to perform the blend print with the metallic silver ink and CMYKLcLm ink.

P. 16, "Blend Print and Layered Print (Metallic Silver and CMYKLcLm)"

To perform the blend print, you need to use the printing data where the use of the metallic silver ink and the CMYKLcLm ink is designated.

P. 10, "2-3 Creating Printing Data"

Procedure

Make sure that you have finished making the preparations for VersaWorks, getting the printer ready, and creating the printing data (☞ page 7, "Chapter 2 -- Getting Ready").



4	File Format	Click .
	Quality	Turn on the [Convert Spot Color] option.
5	Printer Cut Controls	Click 🔊 .
	Layout Cut Ing Options Deration Mode : Print Only Cut All Paths Print Cut Cut All Paths Print Cut Cut Only Cut Ingane Recruit Only Cut Deration After Deiat	In [Operation Mode], select the operation of the printer.
6	Variable Data	Click [OK] to close the "Queue A Proper- ties" window.

This is the end of the print job setting. To start printing, go on to page 35 "Starting the Print Operation."

Only the settings necessary for the use of the metallic silver ink are described in this section. For other settings, refer to the online help provided for VersaWorks.

Layered Print (Metallic Silver ⇒ CMYKLcLm)

This section describes how to perform the layered print with the metallic silver ink and CMYKLcLm ink using the metallic silver ink as background.

P. 16, "Blend Print and Layered Print (Metallic Silver and CMYKLcLm)"

To perform the layered print, you need to use the printing data where the use of the metallic silver ink and the CMYKLcLm ink is designated.

P. 10, "2-3 Creating Printing Data"

Procedure

Make sure that you have finished making the preparations for VersaWorks, getting the printer ready, and creating the printing data (@ page 7, "Chapter 2 -- Getting Ready").



4	File Format	Click .
	Quality	Turn on the [Convert Spot Color] option.
6	Printer Cut Cut Controls	Click 🔊 .
	Layout Cutting Options Deration Mode : Print Only Cut All Paths Print & Cut Pr	In [Operation Mode], select the operation of the printer.
6	Vaiable Data	Click [OK] to close the "Queue A Proper- ties" window.

This is the end of the print job setting. To start printing, go on to page 35 "Starting the Print Operation."

Only the settings necessary for the use of the metallic silver ink are described in this section. For other settings, refer to the online help provided for VersaWorks.

Layered Print (CMYKLcLm ⇒ Metallic Silver)

This section describes how to perform the layered print with the metallic silver ink and CMYKLcLm ink using the CMYKLcLm ink as background.

P. 16, "Blend Print and Layered Print (Metallic Silver and CMYKLcLm)"

To perform the layered print, you need to use the printing data where the use of the metallic silver ink and the CMYKLcLm ink is designated.

P. 10, "2-3 Creating Printing Data"

Procedure

Make sure that you have finished making the preparations for VersaWorks, getting the printer ready, and creating the printing data (@ page 7, "Chapter 2 -- Getting Ready").



4	Color File Format + File		
	Quality		
6	Click A.		
	Layout Layout Cut All Paths Cut A		
	When You Want to Display the Side Opposite the Printed Surface by Using Clear Film.		
	Click		
	Cut Controls Management from: io: iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		

6



Click [OK] to close the "Queue A Properties" window.

This is the end of the print job setting. To start printing, go on to page 35 "Starting the Print Operation."

Only the settings necessary for the use of the metallic silver ink are described in this section. For other settings, refer to the online help provided for VersaWorks.

Printing Only with White Ink

This section describes how to perform printing only with the white ink. To use the while ink in printing, you need to use the printing data where the use of the white ink is designated. If the printing data have the portion designating the use of other colors, with the setting described in this section, you can print with the white ink only the area of the image which has been designated to print with the white ink.

P. 10, "2-3 Creating Printing Data"

Procedure

A Make sure that you have finished making the preparations for VersaWorks, getting the printer ready, and creating the printing data (*respace 7*, "Chapter 2 -- Getting Ready"). Double-click 2 Roland VersaWorks File(F) Edit(E) View(V) Job(J) Printer(P) Media(M) Help(H) Queue A Properties" window appears. VS-640 Status :Ready to Print Print Status B Quality Settings A Media Type Generic Vinul 1 -Print Quality : 📀 High Quality A For [Media Type], select "xxx[MT]: Clear Media Type Layout PET Film" or "xxx[MT]: PET Clear Film, ESP-CL [MT] : Clear PET Film -Generic Vinyl 1 Generic Vinyl 1 [MT] Adhesive" (or xxx: Clear PET Film," "xxx: Print PET Clear Film, Adhesive). P-M : Matt * "xxx" indicates "ESP-CL" and others. ESP-CL : Clear PET F ESP-CL [MT] : Clear F abc.p ESP-CL (MT): Clear PET Film SP-CLT: PET Clear Film, Adhesivery Intel SD-CLT: MT1: DET Clear Film, Adhesivery Mark High Quality \Rightarrow Print Quality For [Print Quality], select [High Quality]. C High Quality (Layered) Quality When "xxx: Clear PET Film" or "xxx: PET Clear Film, Adhesive" is selected for [Media Type], [Print Quality] Color 1440 x 720 do need not be selected (because the option is only Adjustment Triep: Mode White (v) -[High Quality]). CMYKLcLmMt (v) White -> CMYKMt (v) CMYKMt -> White (v) Details For [Mode], select [White (v)]. File Format Halftone MetallicSilver (v) +T abc.p CMYKLcLm (v)

Mark

4	File Format	Click .
	Quality	Turn on the [Convert Spot Color] option.
5	Printer Cut Controls	Click 🔊 .
	Layout Layout Cut All Paths Cut All Path	In [Operation Mode], select the operation of the printer.
6	Variable Data	Click [OK] to close the "Queue A Proper- ties" window.

This is the end of the print job setting. To start printing, go on to page 35 "Starting the Print Operation."

Only the settings necessary for the use of the metallic silver ink are described in this section. For other settings, refer to the online help provided for VersaWorks.

Printing with While, Metallic Silver, and CMYK Ink

This section describes how to perform printing with the metallic silver ink, the white ink, and the CMYK ink. Deciding which ink between the white and the others (the metallic silver and CMYK) you want to use for the base is an important point in determining the print job setting here.

To use the metallic silver ink and the white ink, you need to use the printing data where the use of the respective inks is designated. For the area of the image to be printed with the metallic silver ink and the CMYK ink combined, the setting is fixed to the blend print.

P. 10, "2-3 Creating Printing Data"

Procedure

Make sure that you have finished making the preparations for VersaWorks, getting the printer ready, and creating the printing data (@ page 7, "Chapter 2 -- Getting Ready").



Image of overprinting in the sequence of white and then metallic silver/CMYK Color

(Print Mode "White -> CMYKMt (v) ")



* The white data and the metallic silver/CMYK color data are actually printed simultaneously, but they are shown here as separate layers in order to indicate the printing sequence.

Image of overprinting in the sequence of metallic silver/CMYK Color and then white





* The white data and the metallic silver/CMYK color data are actually printed simultaneously, but they are shown here as separate layers in order to indicate the printing sequence.

4	Color File Format + File	Click 🔛 .	
	Quality	Turn on the [Convert Spot Color] option.	
5	Printer Cut Controls	Click 🔊 .	
	Cuting Options Deration Mode : Print Only Print & Cut Cut All Paths Print & Out Cut Image Rouse Cut Only Cut Image Rouse Cut Only Cut Image Rouse Cut Only Cut Image Rouse Cut Image	In [Operation Mode], select the operation of the printer.	
	When You Want to Display the Side Opposite the Printed Surface by Using Clear Film. Image: Click		
	From : to : Cut Tile Spacing : Controls Minor Job Orientation : Management Image Minor	Turn on the [Mirror] option. When the printing data with mirror image is prepared beforehand, you do not need to turn on this option.	
6	Variable Data	Click [OK] to close the "Queue A Proper- ties" window.	

This is the end of the print job setting. To start printing, go on to page 35 "Starting the Print Operation." Only the settings necessary for the use of the metallic silver ink and white ink are described in this section. For other settings, refer to the online help provided for VersaWorks.

ОК

ancel

Printing with White and CMYKLcLm Ink

This section describes how to perform printing with the white ink and the CMYKLcLm ink. Deciding which ink between the white and the CMYKLcLm you want to use for the base is an important point in determining the print job setting here. To use the white ink for printing, you need to use the printing data where the use of the white ink is designated.

P. 10, "2-3 Creating Printing Data"

Procedure

- A Make sure that you have finished making the preparations for VersaWorks, getting the printer ready, and creating the printing data (page 7, "Chapter 2 -- Getting Ready"). Double-click 2 Roland VersaWorks File(F) Edit(E) View(V) Job(J) Printer(P) Media(M) Help(H) Queue A Properties" window appears. VS-640 Status :Ready to Print Click 🔜 B A Quality Settings Media Type Generic Vinyl 1 -Print Quality : 📀 High Quality Qualit Quality Settings For [Media Type], select "xxx: Clear PET A a Lype Film" or "xxx: PET Clear Film, Adhesive." Lavout ESP-CL : Clear PET Film + Generic Vinyl 1 Generic Vinyl 1 [MT] "xxx" indicates "ESP-CL" and others. Ð SG-G [MT] : Sen SP-M : Matte PET + r ESP-CL : Clear PET Film ESP-CL [MT] : Clear PET Film SP-CLT : PET Clear Film Adh With [Mode], select the print mode. Color White -> CMYKLcLm (v) Mode White -> CMYKLcLm (v) The se CMYKLcLm (v) White -> CMYKLcLm (v) CMYKLcLm -> White (v) Details Inks are overprinted in the sequence of white and File Format Halftone then CMYKLcLm Color. White (v) + T CMYKLcLm -> White (v) Mark Interpolation : Nearest Neighbor -Inks are overprinted in the sequence of CMYKLcLm and then white Color.
 - * The image of overprinting in the sequence of white and CMYKLcLm is the same as that of overprinting in the sequence of white and metallic silver/CMYK on page 31. (The description of "metallic silver/CMYK" is to be replaced with "CMYKLcLm" only.)

4	Color File Format + T 1	Click 🔛 .
	Quality	Turn on the [Convert Spot Color] option.
6	Printer Cut Controls	Click 🔊 .
	Layout Layout Cutting Options Depration Mode : Print Only Print S Cut Cut All Paths Cut All Paths Cut Image Brace Cut Only Cut Only Cut Image Brace Cut Only Cut On	In [Operation Mode], select the operation of the printer.
	When You Want to Display the Side Oppos	site the Printed Surface by Using Clear Film.

When You Want to Display the Side Opposite the Printed Surface by Using Clear Film. P. 32



Click [OK] to close the "Queue A Properties" window.

This is the end of the print job setting. To start printing, go on to page 33 "Starting the Print Operation." Only the settings necessary for the use of the white ink are described in this section. For other settings, refer to the online help provided for VersaWorks.
Starting the Print Operation

Following the print job setting, you can start the print operation.

Procedure



Make settings for the print job.

P. 20, "3-1 Print Job Setting"





Go to "Job List," click the "Queue A" tab, and drag the printing data to the queue A job list (If the print job setting has been made in [Queue B], drag and drop the printing data on the job list of [Queue B].).

The contents of the data are displayed in the preview window, and the layout on the media is displayed in the layout window.



	Status Job Name Job List VS-I Queue A Queue B	Input Time	Size Document Ir
l	mt-wh.ps	01/18 19:44	File Type # of Pages Page Size
			Special Iter Job Properti Media Nan Print Qualit Color Setter
			Color Adjus Scale # of Copies # of Tiles Mark/Labe
		304	Print Area Action Afte

Select the print job in the job list, and then click .

Printing will be started.

(Tips!)

After printing, allow the ink to dry sufficiently. We strongly recommend performing lamination.

Tips!

To continue printing similar data, repeat steps 2 and 3. Also, if you want to modify detailed settings for each job, it will be convenient to perform modifications in the "Job Setting" window (which you can display by double-clicking the print job in the job list).

Printing a Metallic Color Chart

The Metallic Color Chart is the printing sample of the special metallic color. By printing the Metallic Color Chart, you can confirm the "complete metallic color chart" representing the special metallic color itself that can be printed with "Your Printer" and "Your Media" (slight pattern differences is possible to occur depending on the conditions of the printer and media.) By selecting colors from this color chart and creating illustrations with these colors, you can accurately reproduce the desired colors.

Procedure

Make sure that you have finished making the preparations for VersaWorks, and getting the printer ready (~ page 7, "Chapter 2 -- Getting Ready").





Queue A Properties" window appears.

3	Quality Settings Media Type : Generic Vinyl 1 [MT] Print Quality C High Quality (Layered)	Click, configure the settings in [Quality-Settings] and [Color Management]. P. 20, "3-1 Print Job Setting"
Variable Data	2 Cancel	Click [OK].

POINT!

When printing a Metallic Color Chart, the [Quality] settings from the [Queue Properties] window are always applied. Since you cannot change the quality settings for the job using the [Job Settings] window after it has been added, be sure to configure the settings in the [Queue Properties] window before performing the following operations.



Roland VersaWorks	
File(F) Edit(E) View(V) Job(J) Printer(P)	Media(M) Help(H)
VS-640	Media Explorer(W)
Status Ready to Print	Print Roland Color System Library
	Color Chart Type-1
	Color Chart Type-2
	(1) lor Selector
	Aor Chips
	* System Library
	Metallic Color Chart
Status Job Name Nick I Print Status	
THIL OLIVA	Metallic Color Chips
	Print Roland Metallic Texture System Library Chart
R8P Status	Chart File Attributes
Print RolandSystemColorLibra	
The following job will be printed.	3 DK
Do you want to continue?	
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	0000
- 100 M	0000
	80 00
	0000
T CREATE HIS	
File Name - Matalia Calor Chart	
Page Size : 727.9 x 514.9 mm x 1	P (2)
<u></u>	
1	

1 Click [Media] and then [Metallic Color Chart].

2 Check the page size.

If the size of the media loaded on the printer is not adequate for the page size, change it to another media of sufficient size.

③ Click [OK].

The print job of the Metallic Color Chart is added to the job list.





Click . Printing will be started.

Chapter 4 Advanced

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Printing a Texture Chart	46
	Performing Texture Printing What is Texture Printing? Create The Texture Printing Data Performing Texture Printing Printing a Texture Chart

What is Texture Printing?

Texture printing is a printing method to produce texture patterns. This uses the texture patterns of the exclusive library to create and output the printing data. This document describes the texture printing using metallic silver ink.

* Create the printing data using the Adobe Illustrator version of CS or later if using Adobe Illustrator. If you use the earlier version before Adobe Illustrator 10 to create the printing data, the texture patterns may result in poor condition.

Create The Texture Printing Data

To create the data for the texture printing, please follow the instructions below.

The program used to create the printing data is Adobe Illustrator CS4. For detailed information on drawing methods and how to work with palettes, refer to the documentation or online help for Adobe Illustrator CS4. If you're using another version of Adobe Illustrator, operations may be somewhat different from those explained here.

${\it 1.}$ Open the exclusive library.

At the swatch palette menu, select [Open Swatch Library], then [Other Libraries]. The "Select Library" window appears.

* The swatch palette is displayed by going to the menu and selecting [Window], then [Swatch].

41 X		
SWATCHES	New Swatch New Color Group	Art History
<u> </u>	Duplicate Swatch Merge Swatches Delete Swatch Ungroup Color Group	Color Books Color Properties Corporate Default Swatches
	Select All Unused Add Used Colors	Earthtone Foods
	Sort by Name Sort by Kind Show Find Field	Kids Stuff Metal Nature
	 ✓ Small Thumbnail View Medium Thumbnail View Large Thumbnail View Small List View Large List View 	Neutral Patterns Scientific Skintones System (Macintosh)
	Swatch Options Spot Colors	System (Windows) Textiles VisiBone2
	Open Swatch Library	Web User Defined
	Save Swatch Library as AI	Other Library

② ①Open folder in the order of [Computer] (or [My Computer]) → [Local Disk (C:)] → [Program Files] → [Roland VersaWorks] → [Swatch] → [Illustrator], and then select "Roland Metallic Texture System Library.ai."

Depending on the settings of your computer, the extension ".ai" might not be shown.

2 Click [Open].

The exclusive swatch libraries "Roland Metallic Texture System Library.ai" is displayed.



Tips!

By saving the ".ai" file selected in step 2 into the folder below, you can register the exclusive library to the Adobe Illustrator's library.

C:\Program Files\Adobe\Adobe Illustrator CS4\Preset\Swatch

("C" is the name of your computer's local disk.)

Once the registration is performed, you can open the library directly from the swatch palette menu, eliminating the need to search the file every time you start Adobe Illustrator.

2. Create Illustrations and Specify Texture Patterns You Wish to Use

1 Create the illustration.

Be sure to draw the illustration in the CMYK mode.

Assign the desired texture patterns to the areas for the texture printing.

The areas where the texture patterns are assigned shall be printed with metallic silver ink. When the metallic silver ink is to be used for the printings other than the texture printing, other special spot colors shall be used. For the detailed usage, please refer to "Chapter 2 Getting Ready".



* The name of the texture pattern is displayed on the data of Illustrator. The texture of the displayed image appears rougher than that of the actual print.

3. Create the PS (PostScript) file.

0

Ai File	Edit Object Type Select Effect View W
No :	New Ctrl+N New from Template Shift+Ctrl+N
<u>*</u>	Open Ctrl+O
R A .	Open Recent Files Browse in Bridge Alt+Ctrl+O
*	Share My Screen
\$ T.	Device Central Close Ctrl+W
T.	Close Ctrl+W Save Ctrl+S
./	Save As Shift+Ctrl+S Save a Copy Alt+Ctrl+S
1.	Save as Template
1 12,	Check In Save for Web & Devices Alt+Shift+Ctrl+S
<u>ි.</u> ක	Revert F12
12	Place
<u>*::</u> *:2.	Save for Microsoft Office Export
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	Document Setup Alt+Ctrl+P
\mathbb{Q}	Document Color Mode
(A)	Print Ctrl+P
*	Ctrl+Q
Print	+
(2)	
	inter: RolandVW
	Contaux. (Koland Versa/Vorks)
Court 1	General
Marks and Bleed Output	Copies: 1 Colate Reverse Order
Graphics Color Management	Range: Skip Blank Artboards
Advanced Summery	Media Size: Defined by Driver
	Width: 210.058 m Height: 297.053 m 🕼 🗟 🕅 🖬
	Options
20 A	Placement: 💥 X: 0.029 mm Y: 0.0265 mm
- Currente	Do Not Scale Ft: to Page
	Custom Scale: W: 100 8 H: 100
	🗇 Tie Full Pages 👻 Overlap: 🚊 0 mm
	Scale: W: 100 & H: 100
N 4 1 3 N N	Tie Range:
	Print Layers: Visible & Printable Layers
Setup	Print Cancel Done
	*
Adobe Illustrator	
	tup dialog box is provided by the operating
	nsure that you can use the full print
canabilition (
	of Illustrator, please set all print options
from the Pri	nt dialog box.
	nt dialog box.

- ①Click [Print] from the [File] menu.
- ②Select [Roland VW].
- **③Click [Setup]**.
- **4**Click [Continue].

2

State of Parket	Select Printer	
Print Reland WA 500 Beland WA 500		
Preting Protections Preting Preting		
State Part State Durish Pase State Pase	Roland MPX-90	~ ~ ~
Pieto Contraction Pieto Contrac	Kolanov W	
Denset:	Location:	
Number of capase Image: Control Particular Press: During Professional Press: During Professional Program During Professional Page profiles Image: Control Particular Image: Control Particular	Comment	
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(1) Turn on the [Print to file] option.

②Click [Preferences].

③Click [Advanced] in the [Layout] tab. For Windows 2000: In the "Print" dialog box (the window at the very top of this page), go to the "Layout" tab and click [Advanced].

(4)Click the down arrow to the right of the [Paper Size] box, and then click [PostScript Custom Page Size] from the list that appears.

5 For "Custom Page Size Definition," enter the values in the "Width" and "Height" fields.

Enter values for the same size as the illustration you created in step 2_{\bullet} .



3 Click [OK] three times to close the "PostScript Custom Page Size Definition," "Roland VersaWorks Advanced Options," and "Printing Preferences" dialog boxes. The "Print" dialog box returns.

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①Click [Print]. ②Click [Print].

①Specify the destination and file name for saving, then save the file.

Example: "TEX_print" for the folder to save to, and " tex.ps " as the file name

2 Click [Save].

The CMYK layer of the image is saved as a PS file.

6 Open the folder you saved to and make sure the file has been created.

Save

Performing Texture Printing

Procedure

Prepare the printing data having been created in the previous process which is described in "Create The Texture Printing Data" on page 40.

Make the setting to output metallic silver ink with the VersaWorks, and execute the printing.

To use metallic silver ink, you need to select "CMYKMt" or "CMYKLcLmMt" in the print mode of the VersaWorks. For the detailed method of setting, please refer to "Chapter 3 Printing".

Printing a Texture Chart

The texture chart is the printing sample of the texture pattern. By printing the texture chart, you can confirm the "complete texture chart" representing the texture itself that can be printed with "Your Printer" and "Your Media" (slight pattern differences is possible to occur depending on the conditions of the printer and media.) By selecting a pattern from this texture chart and creating the printing data using that selected pattern, you can print your intended pattern almost perfectly. (The procedure is explained using the windows of the VS-640.)

procedure



(2)

OK

Note: When printing a texture chart, the [Quality] settings from the [Queue Properties] window are always applied. Since you cannot change the quality settings for the job using the [Job Settings] window after it has been added, be sure to configure the settings in the [Queue Properties] window before performing the following operations.

/ariab Data



①Click [Chart] under [Print Roland Texture System Library] form the [Media] menu.

This message appears: The following job will be printed. Do you want to continue? Check that the media in the printer is large enough for the displayed page size.

2 Click [OK].

The texture chart is added to the job list.



4

Click

Rip'ing and printing the texture chart are performed.

* In the texture chart, color is added to part of the background of the texture. This makes the design of the texture clear.

Chapter 5 Maintenance

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Message for Ink Circulation

With this machine, white ink and metallic silver ink are circulated periodically to prevent the ink precipitation. When the following message appears, please wait until the display changes. [CIRCULATING INK]

In order to allow the automatic maintenance such as above to be performed, please observe the items below.

- Leave the main power on at all times.
- > Never leave the front cover open for long periods.
- > After making the settings for the various menu items, go back to the top screen.

When Dot Drop-out Etc. Cannot be Corrected

When using metallic silver ink and white ink, ink discharge may become unstable (resulting in dot drop-out, etc.) if the machine is left unattended for a long period. This is due to the properties of metallic silver ink and white ink containing ingredients which tend to settle and separate, which will cause the precipitated ingredients to solidify when the machine is left unattended for a long period. In such cases, perform "ink renewal" menu. For information on how to operate the "ink renewal" menu, refer to the User's Manual.

☞ "User's Manual" ("When Problems Such As Dot Drop-out are not cleared up")

If the problems, such as dot drop-out, cannot be corrected even after performing cleaning above, then contact your authorized Roland DG Corp. dealer or us.





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