UJF-3042MkII series/ UJF-6042MkII Mimaki UJF-3042MkII e series/ UJF-6042MkII e Clear Ink Print Guide

This manual describes the effects that can be expressed when clear ink is used in UJF-3042MkII /UJF-3042MkII EX /UJF-3042MkII e /UJF-3042MkII EX e/UJF-6042MkII /UJF-6042MkII e, and how to set and print them.

Please read this manual carefully and use it correctly.

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Notations used in this document

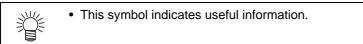
- Items and buttons displayed in menus and on screens are marked with square brackets ([]) as in [File].
- RasterLink6,RasterLink6Plus and RasterLink7 are referred to as RasterLink in together.

Screen image used in this document

• The explanation is based on the screen image of RasterLink6Plus as an example.

Symbols

(Important!) • This symbol indicates important information for using this product.



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Applicable environment

	UJF-3042MkII	F.W. Ver.1.4 or later			
	UJF-3042MkII EX F.W. Ver.1.4 or later				
Dulatan	UJF-6042MkII	F.W. Ver.1.4 or later			
Printer	UJF-3042MkII	e			
	UJF-3042MkII	EX e			
	UJF-6042MkII e				
		It can be used in the following combinations.			
		LH-100 color ink + LH-100 clear ink			
Ink	Color/Clear	ELH-100 color ink + ELH-100 clear ink			
		LUS-120 color ink + LUS-120 clear ink			
		LUS-150 color ink + LH-100 clear ink			
Mimaki Driver	When using Rast	erLink6,RasterLink6Plus: The version that is compatible with the printer you use.			
	When using RasterLink7:Ver.5.5.0 or later				
	RasterLink6 Ver.5.9 or later				
RIP	RasterLink6Plu	us Ver.1.0 or later			
	RasterLink7 Ver.2.0.0 or later				

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Setting the printer

Before printing with this Guide, carry out setting of the printer as follows.

Turn on the printer's power.

- Wait until <Local> is displayed on the panel.
- If the power is already on, have the panel display <Local>.

Select [UV MODE] on the panel, as follows:

- (1) With "Local" displayed, press the FUNC1 key.
- (2) Use the (A), (V) key to select [SETUP], then press the (ENTER) key.
- (3) Use the (A), (T) key to select [UV MODE], then press the ENTER key.
- (4) Use the (A), (V) key to select [ON].
- (5) Press the ENTER key.
- (6) Return to [SETUP], by pressing the END/POWER key just once.

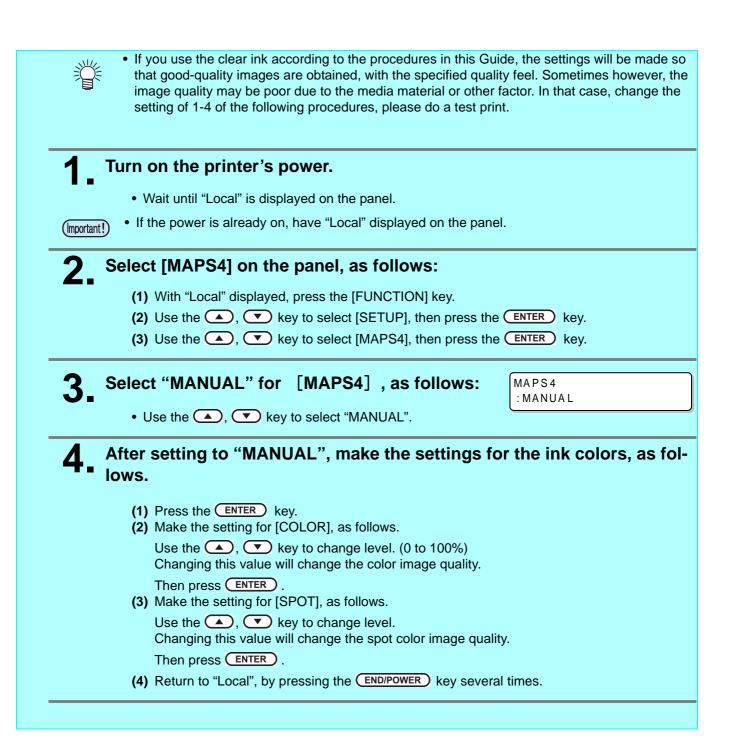
Select [MAPS2] on the panel, as follows:

- (1) Make sure that [SETUP] is selected.
- (2) Use the (A), (V) key to select [MAPS4], then press the (ENTER) key.

Select "AUTO" for [MAPS2], as follows:

- MAPS4 :AUTO
- (1) Use the (AUTO".
- (2) Press the ENTER key.

5 Return to "Local", by pressing the <u>END/POWER</u> key several times.



Effects and printing with clear ink

Clear ink's effects

The effects below can be obtained by using clear ink.



Matte feel effect - "Matte Print"



3D feel effect - "Emboss Print"

These effects can be obtained via the "UV MODE" settings in RasterLink.

(Important!) Reco

Recommended settings for printing a clear ink

To obtain a better effect of clear ink, please use the recommended setting below for the printing condition and clear ink concentration according to the image quality and printing speed.

• When the color ink is LH-100 ink / ELH-100 ink / LUS-120 ink

Glossy print

Reco	Recommended density			
Resolution	Pass	Print direction	High speed	of the clear ink
600x600 VD	10/16	Uni	OFF	100%

Matte print / Emboss Print

Print mode	Reco	Recommended density			
Frint mode	Resolution	Pass	Print direction	High speed	of the clear ink
Draft	600x600 VD	8/10	Uni	OFF	90%
High Speed	600x900 VD	12/16	Uni	OFF	80%
Standard	600x1200 VD	16/20	Uni	OFF	80%
High Quality	1200x1200 VD	16/20	Uni	OFF	80%

• When the color ink is LUS-150 ink

Glossy print

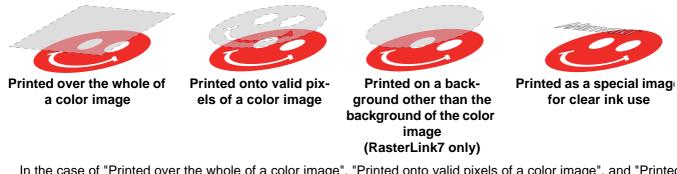
Reco	Recommended density			
Resolution	Pass	Print direction	High speed	of the clear ink
600x600 VD	10/16	Uni	OFF	100%

Matte print / Emboss Print

Print mode	Reco	Recommended density			
Frint mode	Resolution	Pass	Print direction	High speed	of the clear ink
High Speed	600x900 VD	12/16	Uni	OFF	80%
High Quality	1200x1200 VD	16/20	Uni	OFF	80%

Ways clear ink can be printed

Clear ink can be printed in the ways below with RasterLink.



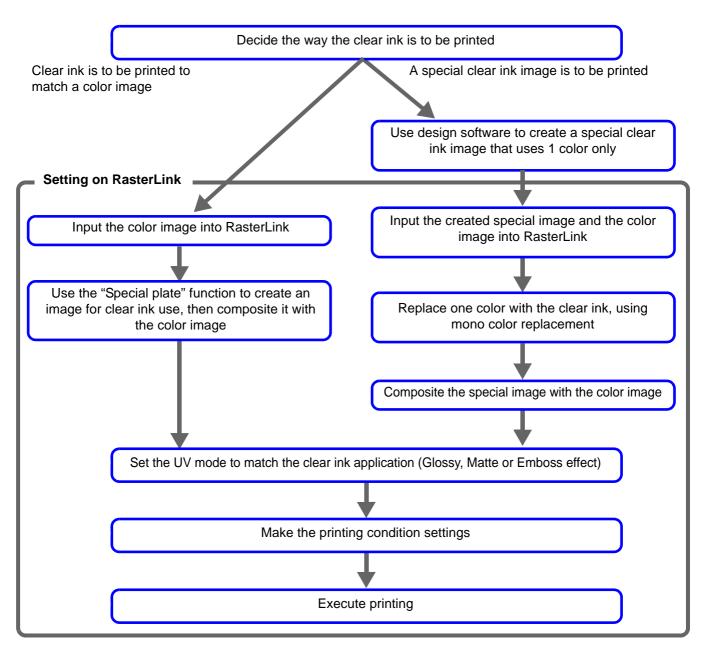
In the case of "Printed over the whole of a color image", "Printed onto valid pixels of a color image", and "Printed on a background other than the background of the color image" (RasterLink7 only), the "Create Plate" function of RasterLink is used to create a job for clear ink.

In the case of "Printed as a special image for clear ink use" it is necessary to create images exclusively for clear ink using design software such as Illustrator.

Printing methods

Data creation and printing procedures

In order to print, you must first create clear ink data and make the settings for it on RasterLink, using the procedure below.



1. Decide the way the clear ink is to be printed

Suppose you have the following color image. You can print the clear ink in any of the three ways shown below.



Print it over the whole of the color image



-> Go to A. Printing the clear ink over the whole of the color image

Print it onto the valid pixels of the color image



-> Go to B. Printing the clear ink onto the valid pixels of the color image

Print on a background other than the background of the color image (RasterLink7 only)



-> Go to C. Printing the clear ink on top of a color image except on the background (RasterLink7 only).

Print a special image for clear ink use



-> Go to D. Printing a special clear ink image

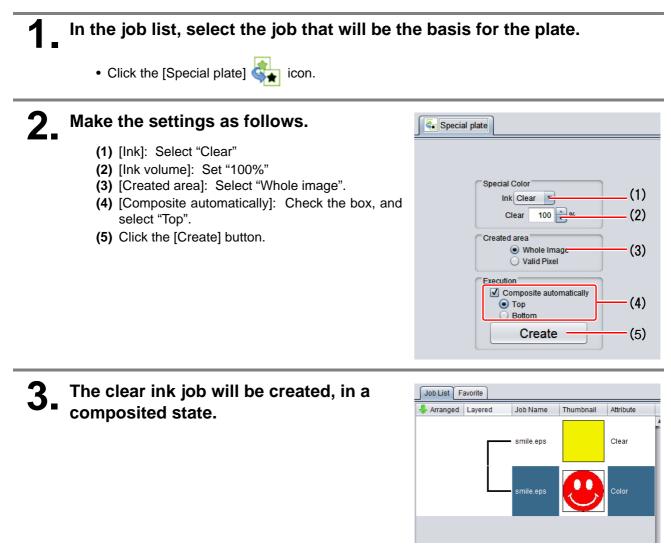


• Here, we explain the procedure to create a clear image by setting the concentration of clear ink to 100%.

Please refer to the table of P.5 "Recommended settings for printing a clear ink" and create a clear image with the UV mode you want to print and the density of clear ink suitable for printing conditions.

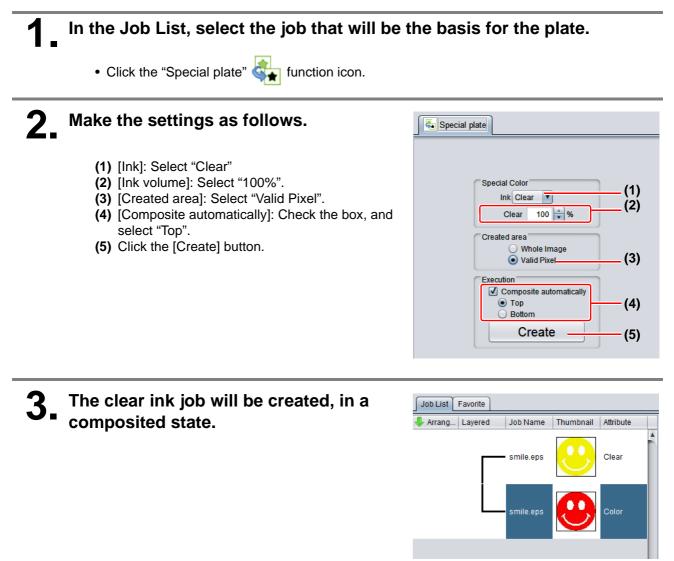
A. Printing the clear ink over the whole of the color image

To print the clear ink over the whole of the color image, create a special plate on the basis of the image.



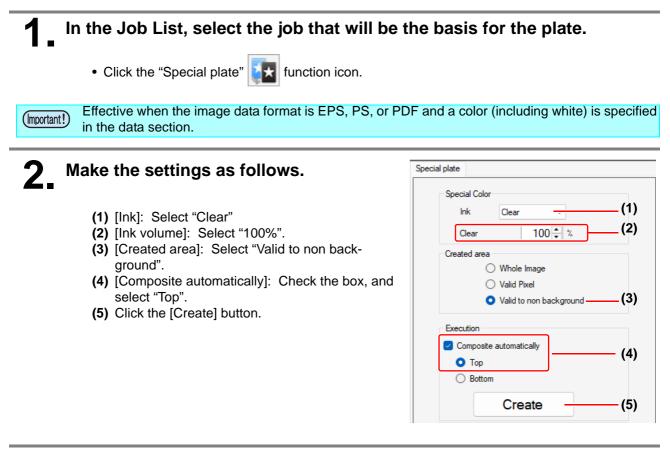
B. Printing the clear ink onto the valid pixels of the color image

To print the clear ink onto the valid pixels of the color image, create a special plate on the basis of the image.

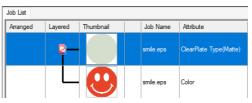


C. Printing the clear ink on top of a color image except on the background (Raster-Link7 only).

To print the clear ink onto the valid pixels of the color image, create a special plate on the basis of the image.



The clear ink job will be created, in a composited state.



D. Printing a special clear ink image

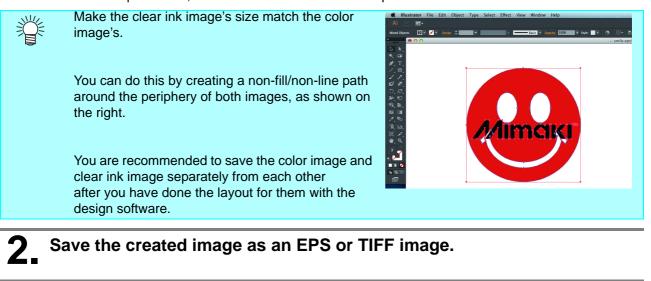
To print an image designed for clear ink, create a special image, separate from the color image, and carry out mono color replacement with RasterLink. After that, composite the clear ink image with the color image.

Creating the clear ink image

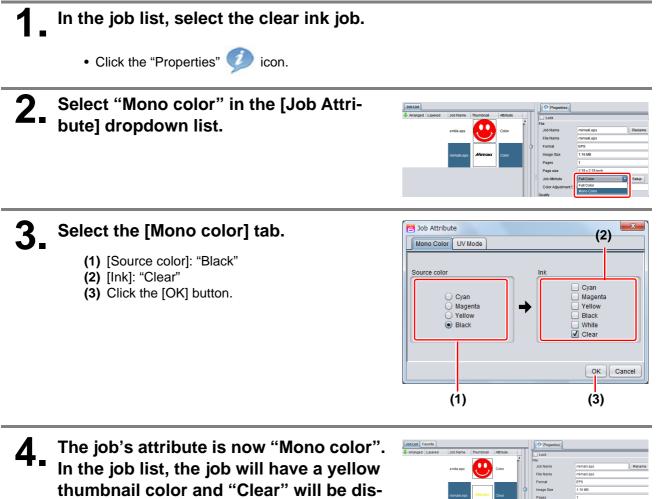
Using design software such as Illustrator or Photoshop, create a clear ink image with the following conditions:

 Color Mode: CMYK Colors used: One color only - cyan or magenta or yellow or black. Set 100% density for the color. For the other colors, set 0%.

In this procedure, black 100% is used as an example.



Import the image saved in procedure 2 into RasterLink.



played in its "Attribute" field.

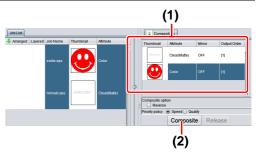


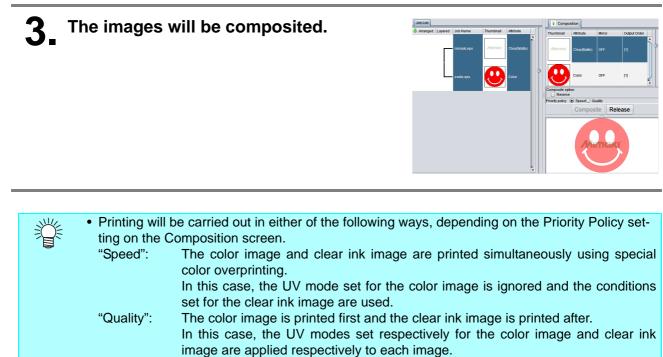
In the job list, select the color job and the clear ink job.

Click the "Composition" 😵 icon.

2 Carry out the following check.

- (1) Is the clear ink job above the color job in the job list.
 - If it is not, use drag and drop to change the positions around.
- (2) After the above check, click the [Composite] button.





- In the following cases, however, after printing a color job, regardless of the composition condition setting of the composite screen, print a clear job.
 - Set glossy print
 - Set emboss print
 - UJF-6042 MkII (CMYK + CIPWW)
 - UJF-3042 MkII EX (CMYK + CIPWW)
 - UJF-6042 MkII e (CMYK + CIPWW)
 - UJF-3042 MkII EX e (CMYK + CIPWW)

2. Select the clear ink's effect: set the UV mode

The clear ink's effect is determined by the [UV mode setting] in RasterLink.

Gloss feel effect - "Glossy Print"

-> Go to a. Setting Glossy Print

Matte feel effect - "Matte Print"

-> Go to b. Setting Matte Print

3D feel effect - as "Emboss Print"

-> Go to c. Setting Emboss Print

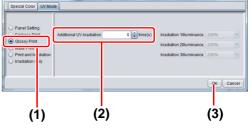
In the job list, select the clear ink job.

- Click the "Properties" icon.
- Click the [Setup] button in the [Job Attribute] field.

2. Select the [UV Mode] tab.

- Make the settings as follows.
- (1) Select "Glossy Print" in the mode list on the left side.
- (2) Set "0" for [Additional UV irradiation].
- (3) Click the [OK] button.

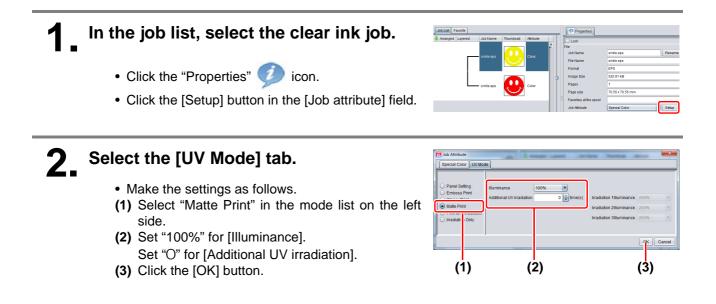






b. Setting Matte Print

(Glossy)".



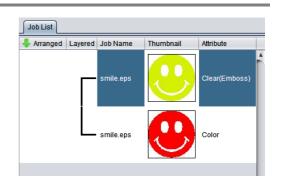
In the job list, select the clear ink job.

- Click the "Properties" *(*) icon.
- Click the [Setup] button in the [Job Attribute] field.

2 Select the [UV Mode] tab.

- Make the settings as follows.
- (1) Select "Emboss Print" in the mode list on the left side.
- (2) [Illuminance]: Set "100%".
- (3) [Number of printings]: Set this according to the thickness of the embossing. (See "Hint!" below for rough calculation of the number of printings for the thickness).
- (4) Click the [OK] button.

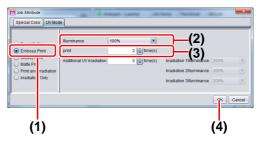
3. Thumbnail of attribute becomes a "Clear(Emboss)".



- After you have set Emboss Print, the clear ink job will be printed the specified number of times after the color job is printed, regardless of the Priority policy settings on the Composition screen.
- When print with high head gap, missing nozzle is likely to occur. Recommend the head gap between 1.5mm and 2.0mm and the number of emboss printing up to 20 times.
- At an output resolution with 600x900 dpi, when you print the 100% density clear ink job with the following specified number of times after the color job, the estimated emboss thickness is as follows.

	Embossing th	ickness [mm]
Specified number of times	LH-100 / ELH-100 clear ink	LUS-120 clear ink
2	0.04	0.03
4	0.07	0.06
6	0.10	0.08
8	0.13	0.11
10	0.17	0.13
12	0.20	0.16
14	0.23	0.18
16	0.27	0.21
18	0.30	0.23
20	0.33	0.26

- When you specify Emboss Print, make sure that there is ample head clearance.
- If you set just Emboss Print, the finish will be matte. See P. 20 for the settings to make in order to obtain a glossy print result.



3. Set the recommended values for the printing conditions

To obtain better effects from the clear ink, use the settings below that are appropriate for the image quality and output speed that you want.

• When the color ink is LH-100 ink / ELH-100 ink / LUS-120 ink

Glossy print

Resolution	Pass	Print direction	High speed
600x600 VD	16	Uni	OFF
600x600 VD	10	Uni	OFF

Matte print / Emboss Print

Print mode	Resolution	Pass	Print direction	High speed
Draft	600x600 VD	8/10	Uni	OFF
High Speed	600x900 VD	12/16	Uni	OFF
Standard	600x1200 VD	16/20	Uni	OFF
High Quality	1200x1200 VD	16/20	Uni	OFF

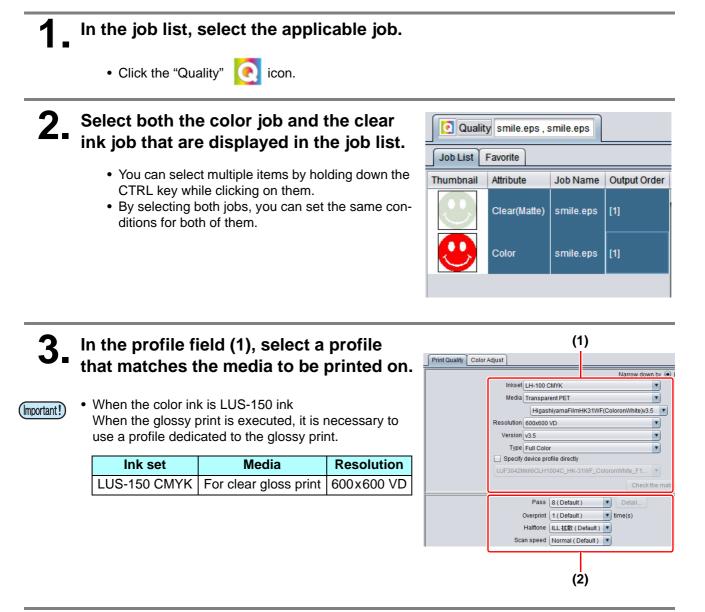
• When the color ink is LUS-150 ink

Glossy print

Resolution	Pass	Print direction	High speed
600×600 VD	16	Uni	OFF
600x600 VD	10	Uni	OFF

Matte print / Emboss Print

Print mode	Resolution	Pass	Print direction	High speed
High Speed	600x900 VD	12/16	Uni	OFF
High Quality	1200x1200 VD	16/20	Uni	OFF



A_ Refer to the table above to set the output setting field (2).

4. Execute printing



Setting glossy finish for Emboss Print

a,

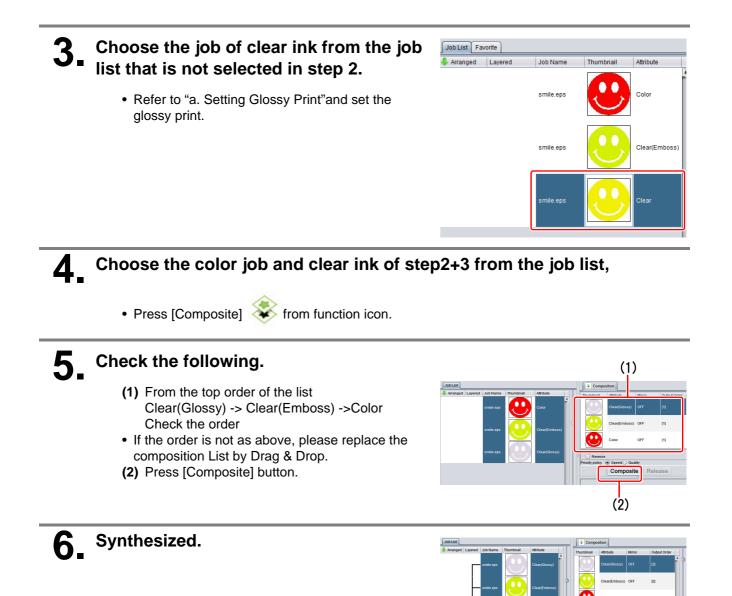
If you set just Emboss Print, the finish will be matte. To obtain a glossy finish, you must reate a Glossy clear ink job, separate from the Emboss Print clear ink job.

	Referring to "1. Decide the way the clear ink is to be printed" (P. 8~) to ,
••	create 1 color job and 2 clear ink jobs.

 In the case of "A. Printing the clear ink over the whole of the color image" or "B. Printing the clear ink onto the valid pixels of the color image": Turn off "Composite automatically" in Special plate printing before creating the clear ink job. Otherwise it will not be possible to create multiple clear ink jobs, since a special plate cannot be made from a composited job. Carry out the above procedure 2 times to create the 2 clear ink jobs. 	Special plate Special Color Ink Clear 100 * % Created area • Whole Image • Valid Pixel Execution Composite automatically • Bottom Create
 In the case of "D. Printing a special clear ink image": Carry out the "Setting mono color replacement" procedure, then carry out the following procedure to duplicate the job. 1. Select the clear ink job. 2. Click the "Duplicate" icon. 3. Set "1" for [Number of duplicates], and click the [Duplicate] button. The clear ink job will be duplicated. 	Duplicate counts 1
2. Choose one job of clear ink from the job list.	Job List Favorite Arranged Layered Job Name Thumbnail Attribute
 Refer to "c. Setting Emboss Print" and set the thick print. 	smile.eps Color smile.eps Clear

Clear

smile.eps



Release



