

English Version (Japanese Translation)

screen ink

Evaporative Drying Ink

general printing | Evaporative drying type

Super Gloss Ink 100 Series

This is an evaporative drying ink with excellent gloss.
After drying, it forms a tough film with excellent physical properties such as alcohol resistance.

Product Features

- Excellent workability and forms a glossy surface with good leveling.
- It has excellent adhesion.
- It has relatively good weather resistance.
- It is highly resistant to oil, alcohol, gasoline, and chemicals.
- It has excellent vacuum formability.
- The dry film is tough and highly resistant to abrasion.

Features

post-processing

print reproducibility

Strong Coating

Adhesion

low odor

leveling ability

Endurance

Chemical resistance

solvent resistance

alcohol resistance

Gasoline resistance

oil resistance

Physical Endurance

weather resistance

abrasion resistance

Recommended Printed Materials

Material

paper

coated paper

glossy paper

Vinyl

Rigid Vinyl [PVC]

Vinyl sticker

PVC Sticker

General plastic

Acrylic [PMMA]

Acrylic sheet

Acrylonitrile Butadienestyrene [ABS]

Post-processing and secondary processing

vacuum forming

Finish, Texture, and Visual Effects

finish

gross

Color & Grade

Standard Colors (Standard Colors)

01 White

02 Yellow

03 Green and Yellow

05 Gold Red

08 Red

16 Pink

17 Red

25 Purple

28 Orange

35 Asa Leek

45 Dark Blue

46 Blue

75 Green

85 Ultramarine

90 Black

Standard Colors (Weather-Resistant Colors)

06 Cinnabar

13 Qing Huang

14 Yellow

18 Red

38 Red

87 Ultramarine

Specifications

Lotus form	Accessories
1kg Ink Can	Matting agent (1kg can)

How to use

- The ink is diluted with VAC solvent (quick-drying, standard, slow-drying) before use.
If you want to slow drying even further, please use a VAC retarder.

print edition

Types of Editions	Cleaning	Recommended Printing Film Thickness
photographic plate	Vinyl cleaning solvent	middle

Curing Method & Conditions

In the case of acrylic sheets

Evaporative Drying Conditions

Dry fingertips	completely dry
60° C about 3 minutes 20° C for about 15 minutes	60° C about 5 minutes 20° C for about 90 minutes

Test data (environment, physical properties, weather resistance, performance, etc.)

Conditions	
base material	Acrylic sheet
print edition	Triple Reprint, 270 Mesh Tetron Edition
printing order	101 White → 190 Black → 101 White
diluent solvent	VAC Standard Solvent
dry	Leave at room temperature for more than 24 hours

Results		
Test Items	Test Method	Results
Adhesion	Cross-Cut Cellotape Release Test	100/100 No peeling
impact resistance	JIS K5400 8.3.2 DuPont Impact Test Φ1/2 inch, 500g, 50cm	No cracks or peeling of the paint film
pencil hardness	JIS K5400 8.4 Pencil Scratch Test	2H
heat resistance	JIS K5400 8.13 80°C 24hr	No change in the appearance of the paint film
cold resistance	-40°C 24hr	No change in the appearance of the paint film
water resistance	JIS K5400 8.19 30° C underwater 24hr	No change in the appearance of the paint film
moisture resistance	40° C, 95% humidity, 16 hours → room temperature, 8 hours for 3 cycles	No change in the appearance of the paint film
Temperature Endurance Test	MIL-STD-202D-106* Cross-cut cellophane tape peeling test after 3 cycles	No cracks or peeling of the paint film
weather resistance	Sunshine Weather Meter 500hr	No change in the appearance of the paint film
solvent resistance	99% Ethanol 100 rubbing cycles	No peeling or dissolution of the paint film
	Regular Gasoline Rubbing: 50 Runs	dissolve a little
detergent resistance	Mama Lemon Liquid [Lion] 50 Times Rubbing	No cracks or peeling of the paint film
oil resistance	Hand Cream [Kao] 50 Times Scrubbing	No cracks or peeling of the paint film
abrasion resistance	Eraser [Lion] 100 rubs	No scratches or peeling

*U.S. military specifications
65±5° C 6hr → Room temperature 4hr → 65±5° C 4hr → Room temperature 3hr → -20±5° C 4hr → Room temperature 3hr →

Weather Resistance List

Grade	color name
5	102 Yellow 103 Qing Huang 105 Gold Red 117 Red
6	118 Red 185 Ultramarine
6-7	113 Qing Huang 114 Yellow
7	SG Medium 101 White 108 Red 135 Asagi
7-8	106 Jin Chi 116 Pink 125 Purple 128 Orange
8	138 Red 145 Dark Blue 146 Blue 175 Green 187 Ultramarine 190 Black

- Weather resistance varies depending on the color.
Be especially careful as smoke and light colors perform significantly lower than their primary colors.

Notes

- Super gloss forms a relatively hard film, so when you overlay it on vinyl stickers and similar items, The fabric may curl.
In such cases, please use the highly flexible "3500 Series EXG Ink."
- The solvent composition of supergloss is not suitable for printing on materials such as styrofoam, AS, noryl, and others.
Also, the adhesion is poor.
- Super Gloss is a type of ink with relatively good weather resistance, but for applications requiring long-term weather resistance,
Please use the "3500 Series EXG Ink (weather-resistant color)".
- By using "JELCON VS Series UV Cut Clear" together, you can further improve weather resistance.
- For safety precautions when using the product, please refer to the product's Safety Data Sheet (SDS).
- The contents provided in this information may be changed or revised without prior notice.
- This characteristic data is based on the evaluation results conducted by our company and does not guarantee the product's characteristics during customer use.
- When using the device, please thoroughly consider the conditions based on the evaluation results of the equipment and substrate actually being used.