

English Version (Japanese Translation)

screen ink

Reactive ink

general printing | Two-component reaction type

AP Ink 2000 Series

This is a high-performance two-component reactive ink made of acrylic urethane resin. It has strong adhesion and excellent physical properties, and does not have the weather resistance issues found in epoxy resin-based inks.

Product Features

- It has excellent adhesion to various materials.
- The ink has a long usable time (pot life) and excellent onboard stability.
- It can also be cured at low temperatures.
- It has excellent gloss and concealing power.
- It forms a cured film with excellent chemical and solvent resistance.

Features

concealment

Onboard stability

Adhesion

quick-drying

Endurance

Chemical resistance

solvent resistance

Recommended Printed Materials

Material

olefin-based

Treated Polyethylene [PE]

Processed PE molded products

Treated Polypropylene [PP]

Processed PP sheets

Processed PP molded products

Frame Treatment PE

engineering plastic

Modified Polyphenylene Ether [PPO/PPE]

Special Engineering Plastics

Painted surface

Painted metal

Surfaces treated with metal, glass, ceramics, and hard coatings

metallic base

plated surface

thermosetting resin

Hard Coat Treatment Surface

Hard coated plastic

Finish, Texture, and Visual Effects

finish

gross

Color & Grade

Standard Colors (Standard Colors)

00 Medium

02 Yellow

03 Green and Yellow

05 Gold Red

07 High-concentration white

08 Red

16 Pink

17 Red

25 Purple

28 Orange

45 Dark Blue

46 Blue

75 Green

85 Ultramarine

Specifications

How to use

- Add curing agents and diluent solvents to the ink, stir well, and then print.
 - Hardener: JA-950, 10 parts
 - Dilution solvent: Tetron solvent (standard, slow-drying, retarder) about 5~20 parts
- The usage time is approximately 6~12 hours at room temperature (25° C).
- For surface treatment, please refer to the attached document "[Surface treatment of polyolefin material](#)"Please refer to the "" section.

print edition

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

Curing Method & Conditions

Be sure to heat to dry your fingers to the touch.
The fingertip drying time is when the ink is diluted with Tetron replacement solvent.
Heating and curing at the highest possible temperature yields a hardened film with better adhesion and physical properties.

Evaporative Drying Conditions

Dry fingertips	completely dry
• 80° C 5 minutes • 60° C for 10 minutes	• 120° C for 15 minutes • 80° C for 60 minutes • Room temperature for 3 days

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

Physical properties of ink films	
Conditions	
printing substrate	Corona Discharge Treated PP Sheet
dry	After forced drying at 60° C for 10 minutes, leave at room temperature (25° C) for 3 days

Results

Test Items	Test Method	Results
pencil hardness	JIS K5400 8.4 Pencil Scratch Test	2H
Adhesion	Cross-Cut Cellotape Release Test	100/100
alcohol resistance	99.5% Ethanol - 50 rubbings	No abnormalities
detergent resistance	Kao My Pet 5% Solution 100 Times Rubbing	No abnormalities
moisture resistance	60° C Humidity above 95% After 120 hours of storage,	Cross-cut cellophane tape test: 100/100 Pencil hardness: 2H Gloss changes: No abnormalities
blocking resistance	Load Capacity 2kg/10cm ² 60° C 60 minutes	Printed surface vs. cellophane: no issues Printed surface vs. PP sheet: No issues

Results

Test Items	Test Method	Results
Changes in gloss and color fading on printed surfaces (Gauze stains)	After immersing the specimens in each test solution for 24 hours, still wet Rub the printed surface 20 times with gauze, Afterwards, the printed slips are washed and dried.	50% Ethanol: No Abnormalities 100% Ethanol: Slight fading Liquid paraffin: No abnormalities Kao Feather Oil Shampoo: No Issues Kao Oil Rinse: No abnormalities Bravas Hair Tonic: No Abnormalities MG-5 Hair Liquid: No Abnormalities Vitalis-V-7: No Issues Lion Mama Lemon: No Abnormalities Kao Luna Mild: No Issues

Weather Resistance List

Grade	color name
5	2017 Red
5-6	2002 Yellow 2003 Qing Huang 2005 Gold and Red
6	2085 Ultramarine
6-7	2007 White
7	2008 Red
7-8	2000 Medium 2028 Orange 2016 Pink 2025 Purple
8	2045 Dark Blue 2046 Blue 2075 Green 2090 Black

Notes

- Since hardeners react with moisture and harden, always keep containers closed.
When storing, seal tightly and keep in a cool, dark place.
- AP ink uses a base resin with excellent weather resistance, but only four colors—blue-yellow, yellow, gold-red, and red—
Due to the pigments used, it only has weather resistance of less than one year.
Therefore, for applications requiring long-term weather resistance with these colors, please use "APG ink."
APG ink uses the same base resin as AP ink, but this series uses only the highest grade pigments with excellent weather resistance.
- Adhesion to inorganic materials such as glass, ceramics, and metal substrates is better than that of AP ink.
The "1000 Series Epilite Ink" is superior.
- 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.