

English Version (Japanese Translation)

screen ink

additive

For other inks

Additive Applications matte shine | solvent-based

JA-450 General-Purpose Matting Agent

This is a silica-based paste-type additive used to adjust the gloss of solvent-based gloss inks.

Product Features

- Unlike conventional products, it does not contain intermediate components, so it can be easily mixed into all solvent-based inks, and the matting effect is also high.
- You can adjust the degree of matte finish depending on the amount added.
- It can be used with all solvent-based inks, so there is no need to prepare a different gloss mater for each ink series.
- It has a high matting effect and can remove shine with a small amount of additives.
- With 20% addition, the gloss is equivalent to 30% of the conventional matting agent.
- Since it does not contain medium components, the pigment density of the ink does not decrease significantly.
- Compared to conventional matting agents, its moisture and water resistance do not decrease significantly.
- Easy to mix with ink, and you can use it just by stirring.

Finish, Texture, and Visual Effects

finish

mat

Specifications

Characteristics

paste

How to use

- The dosage is 5~30 parts per 100 parts of ink.
- Stir thoroughly to ensure uniformity, and if necessary, dilute with a diluting solvent.
- For viscosity adjustment, use the specified diluent solvent for each ink series.

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

Changes in JA-450 Additive Amount and Gloss

Results		
Test Items	Test Method	Results
Super Gloss 108 Red + Acrylic Sheet	JA-450 No additive, at 10% added, when 20% added, when 30% added Measuring the gloss level of each type	No additives: 72.0 10% Added: 16.0 20% addition: 3.8 30% Addition: 1.7
VAC Color 608 Red + Acrylic Sheet	JA-450 No additive, at 10% added, when 20% added, when 30% added Measuring the gloss level of each type	No additives: 69.1 10% Add: 18.9 20% Add: 4.3 30% Addition: 2.4
SP705 Gold Red + PVC Sticker	JA-450 No additive, at 10% added, when 20% added, when 30% added Measuring the gloss level of each type	No additives: 71.8 10% Add: 14.0 20% Add: 4.3 30% Addition: 2.0
EXG3508 Red + PVC Sticker	JA-450 No additive, at 10% added, when 20% added, when 30% added Measuring the gloss level of each type	No additives: 57.2 10% Add: 12.8 20% addition: 3.9 30% Addition: 1.4
OPS5608 Red + PP Sheet	JA-450 No additive, at 10% added, when 20% added, when 30% added Measuring the gloss level of each type	No additives: 72.7 10% Add: 19.3 20% Added: 6.0 30% Added: 2.8

Gloss Value Guideline

20 or higher: Gloss

10~20: Semi-gloss (semi-gloss)

10 or less: Matte (matte)

printed material

Acrylic sheet

Results

Test Items	Test Method	Results
additive-free	Measurement of gloss, transmittance concentration, viscosity, and adhesion	Gloss: 78.0 Transmittance concentration: 1.62 Viscosity: 290 dPa·s Adhesion: Does not peel off
JA-300 20% added	Measurement of gloss, transmittance concentration, viscosity, and adhesion	Gloss: 9.9 Transmittance concentration: 1.50 Viscosity: - Adhesion: -
JA-450 20% added	Measurement of gloss, transmittance concentration, viscosity, and adhesion	Gloss: 5.1 Transmittance concentration: 1.52 Viscosity: - Adhesion: -
JA-300 30% added	Measurement of gloss, transmittance concentration, viscosity, and adhesion	Gloss: 5.0 Permeability concentration: 1.35 Viscosity: 240 Adhesion: Does not peel off
JA-450 30% added	Measurement of gloss, transmittance concentration, viscosity, and adhesion	Gloss: 2.2 Transmittance concentration: 1.43 Viscosity: 100 Adhesion: Does not peel off

Notes

- Please keep the maximum amount added to 30%.
Adding more than this will reduce the ink's film performance.
- Higher amounts tend to lower ink viscosity.
Please adjust by reducing the dilution solvent or similar methods.
- This product contains many of the same ingredients as the #170 standard solvent, so when printing on materials with weak solvent resistance, such as styrofoam,
There is a risk of cracks.
Please keep the amount added sparingly.
- Cannot be used with UV ink or water-based ink.
- It mixes easily into ink, but if stirring is insufficient, uneven gloss may appear.
Stir thoroughly.
- 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.