

Ink

Mirror ink 8700 series (Chrome Effect)

FIELD OF APPLICATION

Substrates

The screen printing Mirror ink is excellently suited to print onto
Flexible and Rigid Treated PET Polycarbonate (PC)
Hard PVC
PMMA (Acrylic)
Glass

Ink Selection

8700-PC - Suitable for PC, PET, PMMA, PVC
8700-GC - suitable for Glass

Field of Use

Mirror ink is evaporating drying type of ink that can offer mirror like surface or chrome like surface effects by screen printing on the backside of the transparent substrates (Plastics Sheets/Glass). Mirror inks are recommended for high end coatings such as consumer Electronics, Plastic coatings, Car Interiors, Touch Panels Wheel Rims and decorative purposes.

The ink can be used as 1 or 2 component ink. This special ink has compared to other 2 component inks, a very good adhesion to the substrate.

Mirror ink can also be processed with spray gun, drawing brush. In order to avoid surface irregularities, we recommend to filter the thinned ink before processing.

CHARACTERISTICS

This mirror effect pigment are high brilliant, physically drying and chemical reactive

Solvent Base

screen printing ink exhibits good mechanical & chemical resistance as well as good flexibility and adhesion. Excellent printability, easy processing and stable in color matching.

Humidity resistant, weathering resistant, Acid and alkali resistant

HOW TO USE

Mirror ink is ready to use. If thinning is necessary then TP-61 can be added.

You may add Hardener to improve the mechanical and chemical strength of the ink on substrate.

Depending upon the design/artwork to be printed, a mesh count ranging from 100-150 threads (250-380 threads per inch) is recommended.

Squeeze

65 to 75 Shore A

Coverage

Printable area approximately 30-70 m²/kg through polyester 270 mesh/inch mesh count.

Drying time

The gloss level of mirror ink depends on drying condition as well as on the substrate and its surface quality. Drying the ink at lower temperature and humidity creates higher mirror effects

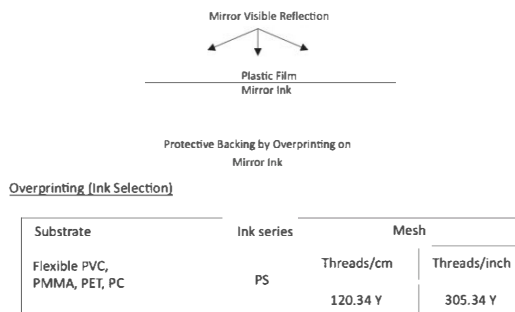
Drying temperature

Flexible/Rigid PVC – 60°C for 30 minutes
 Flexible/Rigid PC/PMMA/PET – 70°C to 80°C for 10 minutes
 Glass (Home Appliances – 160°C to 180°C for 10 minutes
 Glass (Touch Panel) – 150°C to 180°C for 30 minutes

Over printing of Mirror ink

Printing of mirror ink on the flexible Pet need to be protected from mechanical and chemical damage

Scratch or corrosion



RANGE OF COLORS

Basic Colors

8700 Miiror Silver

Colored Mirror ink

Mimosa Gold

Custom Colors

Custom colors can be made on request.

CLEANER

Use TP-69 for cleaning the screen /washing up.

ADDITIVES

Thinner:

Ink is ready to use. If thinning is needed then add TP-61 Thinner. Before production, the viscosity of the printing ink has to be

Hardener

Prior to printing hardener must be added in correct quantity and always by weight and mixture must be stirred thoroughly. Hardeners are sensitive to humidity and always to be stored in a sealed container.

Hardener series

Glass (Home Appliances) - 50

ABS - 509

Glass (Touch panel) -90

Rigid Plastic - 70

Hardener ration 20:1 (20 part of ink by weight plus 1 part of hardner)

TYPE OF PACKING

1-kg Can

SHELF LIFE

Shelf life depends on the reactivity of the ink while adding hardener as well as storage conditions (temperature).

The shelf life for an unopened ink container if stored ink dark room at a temperature of 15°C-25°C is one year.

Under different conditions, particularly higher storage temperatures, the shelf life is reduced. In such case, the warranty given by Spinks expires.

PRECAUTION

- 1) After mixing the hardner in the ink at room temperature of 20°C-25°C a pot life is 4-5 hours. If temperature is higher shelf life of the ink will reduce.
- 2) Any addition of additive reduces the gloss level of the mirror layer.
- 3) Even minimal residues of silicone oils (components of defoamers and screen inks) will cause fish-eyes and pinholes. Take care to use absolutely clean equipment for preparation of the printing mixtures along with well degreased fabrics for the printing process.
- 4) Please refer MSDS before use.
- 5) Be sure to do trials before commercial run to confirm that the product fits the purpose
- 6) Additional technical information may be obtained from our Technical Department.
- 7) All characteristics described in this Technical Data Sheet refer exclusively to the standard products listed under range, provided that they are processed in accordance with the intended use and only when used with the recommended additives. The selection and testing of the ink for specific applications is exclusively your responsibility.

Should, however, any liability claims arise, they shall be limited to the value of the goods delivered by us and utilized by you with respect to any and all damage not caused intentionally or by gross negligence.