



Mirror Finish Inks

MR481 BRIGHT MIRROR SILVER MR482 MIRROR SILVER

Sericol's Mirror Finish Inks have been developed to offer printers a simple cost effective alternative to silvering to obtain mirror finish prints. They represent a flexible means of decorating items such as gaming machines (slot/fruit/quiz) with speed and versatility that traditional methods cannot match. MR481 & 482 can be used in combination with other Sericol inks to produce multicolour designs with mirror features. The inks are solvent-based and give good print performance.

General Guidelines for use

- 1) The inks must be under surface printed on clear substrate to give mirror finish. Top surface printing will give a metallic finish only. The best mirror effects are achieved when printing fine text (3-5mm). The larger the area the less reflective the image becomes.
- 2) Glass and Acrylic are the most common substrates for mirroring purposes but other clear plastics can be used. The key properties to obtain good results are clarity and smoothness/flatness of the substrate surface.
- 3) MR481 & MR482 can be used with colours from the Glass GA or Mattplast MG/MH inks to produce multicolour designs with mirror highlights. The colours and mirror inks can be used in any overprint/underprint combination to meet design requirements. See the respective Glass GA, Mattplast MG/MH Product Information sheets for details of their use. Coloured mirror effects can be achieved by printing a transparent ink backed up by MR 481 or MR482.
- 4) The mirror finish is enhanced by printing a back up layer of white. This is an important step if prints are to be back illuminated. The mirror prints should be allowed to stand for 1 hour prior to overprinting with any colour to permit time for the metallic pigments to fully align themselves and give maximum mirror effect.
- 5) As with most solvent-based inks, screens should be left flooded during breaks in production.
- 6) Best practice is to add small quantities of fresh ink to the screen at regular intervals throughout the print run to maintain optimum print performance.
- 7) Air drying typically takes 30-45 minutes depending on local conditions. Jet air drying at 40°C will give a fully dried result in approximately 30 seconds. Please note, the addition of thinner or retarders can slow drying time. Ensure inks are fully dried before handling or assembly processes are started.

Range

MR481 Bright Mirror Silver
MR482 Gaming Mirror Silver
Available in 1kg packs

Thinner and Retarder

VVH54 Thinner
ZC524 Retarder
Available in 1&5ltr containers

Main Characteristics

MR481 Bright Mirror Silver produces the brightest, cleanest mirror finish

MR482 Gaming Mirror Silver is less bright than MR481 but is more resistant to the handling (Scratch & Tape) requirements of the gaming machine industry.

Finish

Mirror-like when under surface printed

Drying

Air drying – 30-45 minutes depending on ambient conditions
Jet dry at 40°C for 30 seconds

Thinning

The inks are press ready but can be modified as required.
Thinner – VVH54 up to 5%
Retarder – ZC524 up to 10%

Wash-up

Xtend Screenwash and Cleaners

Mesh

Nos. 120 monofilament

Stencil Recommendation

Direct Solvent Resistant Systems such as Dirasol 916

Coverage & Mesh No.

Approximately 60m²/kg No. 120.

Substrates

Glass, Acrylic and other clear plastics

Safety and Handling

MR481 Bright Mirror Silver, MR482 Mirror Silver:

- Are formulated free from lead and other heavy metals and therefore should comply to the EN71-3:1988 Toy Safety Standard.
- Should be stored away from heat.

Comprehensive information on the safety and handling of MR481 and MR482 inks and solvents is available in the appropriate Sericol Safety Data Sheet, available on request.

Environmental Information

MR481 Bright Mirror Silver, MR482 Mirror Silver:

- Do not contain ozone depleting chemicals as described in the Montreal Convention.
- Are formulated free from aromatic hydrocarbons which are known to have an adverse effect on the environment.
- Are formulated not to contain any heavy metals and therefore should comply with the requirements of the The Packaging (Essential Requirements) Regulations 1998:S1 1165 (Article 11 of EC Directive 94/62/EC).

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

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