

## MIR-51000 Mirror Silver

(Super glossy ink for PC and Treated PET film)

MIR-51000 Mirror Silver is a mirror ink for screen printing with excellent printability on polycarbonate and treated PET materials. It offers environmental and cost advantages as an alternative to plating, and can be applied to home appliances, mobile phones, and other products.

<b>Applications</b>	Display panels for home appliances, membrane switches		
<b>Special Features</b>	<ul style="list-style-type: none"> <li>• No intentional use of Halogen (Chlorine Cl, Bromine Br) compounds in raw materials.</li> <li>• High thixotropy, suitable viscosity for printing, and excellent printability.</li> <li>• Capable of producing a clear, spots-free, mirror-finish ink layer.</li> </ul>		
<b>Substrate</b>	PC and Treated PET film		
<b>Dilution</b>	C-002 SOLVENT Dilution: 0 to 10% *Basically, no dilution is needed. Do not use other solvents as they may adversely affect mirror surface, adhesion, stencil stability, and other properties.		
<b>Catalyst/Promoter mixing</b>	106 CATALYST 1% (to improve adhesion) 200 CATALYST 3% (for insert molding)	Pot life: 4 hrs.	Pot life: 4 hrs.
	*Use catalyst to improve adhesion to hard-to-bond substrates (hard coat substrates, etc.) and for insert molding applications. Please mix only the amount to be used.		
<b>Recommended Cleaner</b>	Screen Cleaner L2		
<b>Mesh</b>	T 300 mesh (Coverage is about 40-50m <sup>2</sup> /kg)		
<b>Drying</b>	80°C 30 min	<u>Over print</u> MIR 80°C 30 min Back print 80°C 30 min	

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**Caution**

- Although Mirror Ink itself adheres to the substrate, be sure to overprint to prevent scratch and to improve gloss and resistance.
- Use “MIX-HF or MIB Ink series” for back print. For recommended printing conditions, please refer to the respective ink catalog.
- If the ink layer thickness is 3µm or more, delamination may occur between mirror ink and the back-print ink.
- Heated drying is strongly recommended. More than 30 min at 80°C is necessary. Delamination may occur if MIX-HF or MIB ink is back-printed and dried without the mirror ink having dried.
- Be sure to conduct preliminary tests to check the mirror surface and adhesion before carrying out mass production tests.
- Ink viscosity increases after printing. Do not add used recovered ink to unused ink, unless transfer it to another container, add C-002 solvent and dilute to the viscosity of unused ink before use. However, when using recovered inks, please check the print finish, etc. in advance.
- Ink shelf life: 6 months from production date, unopened.

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**Safety**

UN No.: Not classified in the definition  
UN Classification: Not classified in the definition

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**Handling**

- Use safety gloves and eyeglasses to protect skin and eyes. If the ink comes in contact with skin, wash with soap and plenty of water (or lukewarm water) and consult with a doctor.
- Containers should be closed tightly after use and stored in a cool and dark place.
- SDS is available upon request. Please request a copy and read it carefully before handling the products.

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\*Information contained in this catalog may change without prior notice.

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