

Ultra Elite GF057 Ink – Common UV/LED

Product Description

AT Inks, UVLED curable inks are reactive Monomer/Oligomer based inks in liquid form which converts into a film on exposure to UV light from metal halide lamps or LED lamps.

UV Inks manufactured by AT Inks are specifically designed based on the following aspects:

- a. Type of Lamp used
- b. Substrate to be printed on
- c. Flexibility of the printed image required

Based on these 3 aspects AT Inks offers UV curable inks and LED curable inks. We offer products for hard/rigid substrates, semi-flexible substrates and flexible substrates.



Benefits and Advantages

AT Inks, Ultra Elite GF057 Ink is an Ink specifically designed to work on Ricoh* GH2220 printheads. It is an ink that will work best with LED lamps at 395 nm wavelength (8W or more) and will also work with UV mercury lamps.

AT Inks, Ultra Elite GF057 ink is designed for flexible surfaces and can be folded after printing to upto 180^{o****}, if required. These inks give good to excellent adhesion on flexible substrates as detailed in the compatibility chart. Ultra Elite GF057 Ink is designed to work on multiple printheads and can be used on hybrid and roll to roll machines. It can be printed on hard rigid surfaces also, however, adhesion to these substrates will need to be checked by the user for their specific applications.

Field of use

Ultra Elite GF057 Inks are designed for hybrid machines and has been designed specifically for Ricoh* GH2220 printhead.

Features

- Will work with UV mercury as well as LED lamps
- Very good outdoor resistance and fastness properties
- Good/medium MEK Resistance and Rub resistance over various substrates
- Low odor
- 100% Non-VOC
- Large color gamut
- High density color
- Low stretchability

Available colors

- Cyan
- Magenta
- Yellow
- Black
- Light Cyan
- Light Magenta
- Flush Solution
- White

Technical Data Sheet

Version. 4.01



Compatibility with various substrates

SUBSTRATES	ULTRA ELITE GF057	
	w/o Primer	Primer
Glass	+	
Acrylic	+	+
Poly Carbonate	+	
Poly Styrene	+	+
ACP (Smooth Surfaces)	+	
ACP (Rough Surfaces)	+	
MDF (Rough Surfaces)	+	
MDF(Smooth Surfaces)	+	
Wood	+	+
PVC Foam (Sun Board)	+++	
Treated Corrugated PP (Sun pack)	+	
One Side Adhesive Vinyl	+++++	
Star Flex (PVC Sheet)	+++++	
Backlit (PVC Sheet)	+++++	
Frontlite (PVC Sheet)	+++++	
Black Back (PVC Sheet)	+++++	
PC Mobile Covers	+++++	
PU Mobile Covers	+++++	
ABS Mobile Cover	+++++	
Polyester (PET) Fabric	+++++	
Artificial Leather (Rexin)	+++++	
Soft Leather	+++++	
Metal (Aluminium)	+	+++
Metal (Stainless Steel)	+	+++++
+++++ = Good +++ = Fair + = Poor		

- These are recommendations only and it is strongly recommended that you test adhesion properties in-house to verify the results. Please contact AT Inks technical team at techsupport@atinks.com, for any print film performance related query.
- Do not print on reflected media like polished Stainless Steel plate, Mirror, Glass with black back, highly glossy and reflecting films etc. As it has the potential to reflect stray LED light onto the nozzle plate causing reliability issues.

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Technical Specifications

Viscosity**	: 6 - 25 cP
Surface Tension	: 22 - 35 Dynes/cm
Flash Point	: >95°C

Standard Product Packaging

- 1L Bottle
- Other packaging sizes available

Shelf Life

12 months from the date of production, when stored according to the recommended storage conditions.

Ink Change over and Printhead Maintenance

Before change over, the printhead can be flushed using AT Inks “UV/LED Flush Solution” for best results. Failure to clean the printhead before changeover with the above flush may result in nozzle blockages. Contact us for ink change over procedure, if required.

Storage Conditions

Product should be stored in original packaging in a cool/dry place between 20°C and 28°C (68-82°F) and relative humidity of 30 – 60% (non-condensating) in a sealed bottle, away from direct sunlight and heat sources. Prevent freezing of this product. Use product within 15 days of opening the bottle, for best results.

Shipping and Handling

All internal handling these products must wear gloves and eye protection as per local laws. After use, wash hands with soap and water. Should ink come in contact with clothes, remove clothing to avoid prolonged skin exposure. Should ink come in contact with skin, wipe off with a clean, dry absorbent cloth and wash area with soap and water. Dispose containers and ink waste as per local and federal regulations. For additional safety data, please refer to SDS.

* Trademark of respective companies.

** Viscosity at room temperature.

*** Depends on substrates compatibility.

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All technical instructions about our products and their use, if spoken, written or through test trials are to the best of our knowledge. However, it should not be considered as an assurance for certain properties of products or their suitability for each application. It will be solely your responsibility for the selection and testing of the ink for specific applications.