



# Pete's Luminous Creations

10 Anson Road,  
International Plaza, #15-14  
Singapore 079903

---

## Photo Luminescent Paint Mixing Instructions

Glow paint consists of glow powder mixed with clear organic resin, organic solvents and in some cases other materials. Once mixed, it can absorb light and glow in the dark for hours.

### Mixing Instructions for Luminous Paints

- a. Choose transparent, neutral or weak acid organic resins like polyurethane resin, acrylic acid resin, epoxy resin, polyester resin, etc..
- b. For painting purposes, particle size of pigments can be between 10~15 (D) or 20~40 (C) is recommended.
- c. Mix about 20 to 50% of luminous pigment, measured by weight, to the clear resin. This is just a guideline. You could add more or less according to your requirements.
- d. Mixing ratio for UV light sensitive powders is only 15 to 25%, measured by weight, to the clear resin.
- e. Do not grind the luminous pigment.
- f. Use containers with ceramic or glass interiors and stir the mixture at high speed.
- g. To avoid deposits, you should use high viscosity resins or anti-settling agents.
- h. Do not use heavy metal components as additives.

### Usage Instructions for Luminous Paints

- a. By brush painting, roll painting or spray-painting.
- b. For good luminous effects, the luminous layer should be at least 100~150 um.
- c. A base coat of white or very light color is preferred. Applying luminous paint on dark colors reduces the glow effect by as much as 50%
- d. Use a layer of varnish over the luminous surface to add a glossy effect to the paint. A layer or two of clear varnish also provides a certain level of surface protection.
- e. Adjust the viscosity to suit your application method and stir well prior to painting.
- f. One kilogram of Luminous Powder can be mixed to produce up to 2 litres of glow paint.
- g. One kilogram of UV Phosphorus Powder can be mixed to produce up to 5 litres of UV Ink.
- h. One litre of glow paint or uv paint can cover an area of about 3.5 square meters.

---

Phone: (65) 6287 3059, Fax: (65) 6234 4402  
Web Site Address: <http://www.glo-net.com/>  
Email Address: [peter@glo-net.com](mailto:peter@glo-net.com)



# Pete's Luminous Creations

10 Anson Road,  
International Plaza, #15-14  
Singapore 079903

---

## Photo Luminescent Printing Ink Mixing Instructions

Luminous Printing Ink is the product of Luminous Pigment with Clear Printing Inks. Luminous Printing Inks can glow in the dark for hours after absorbing surrounding light. With good heat resistant and anti friction properties, these inks are suited for application on many materials like paper, textile, wood, plastic, metal, ceramic, etc..

### Mixing Instructions for Luminous Printing Ink

- a. Choose neutral transparent printing inks
- b. Choose pigments with small particle size like (C) 20~40 (D) 10~15 (E) 5~10.
- c. Add about 20 – 40% of luminous pigment, by weight, into the clear printing ink.
- d. Mixing ratio for UV light sensitive powders is only 15 to 25%, measured by weight, to the clear resin.
- e. You could add more if brighter ink is required. Adding more powder thickens the solution.
- f. Do not grind the pigments.
- g. Use containers with ceramic or glass interiors and stir the mixture at high speed.
- h. To avoid deposits, you should use high viscosity resins or anti-settling agents.
- i. Do not use heavy metal components as additives.
- j. Select a printing ink that is suitable for the surface it is to be printed on. For example, use metal abrasive oil ink if the surface to be printed on is metal.

### Usage Instructions for Luminous Printing Ink

- a. Viscosity of mixed inks should be between 3000-5000 poise.
- b. Viscosity can be adjusted during the printing process with a diluting agent.
- c. A base coat of white or very light color is preferred. Applying luminous paint on dark colors reduces the glow effect by as much as 50%
- d. For good luminous effects, the luminous layer should be at least 100-150 um
- e. Ideal mesh size for silkscreen printing screens is 80 – 100 mesh. Smaller screen mesh sizes are okay as these create a thicker printed layer.
- f. One kilogram of Luminous Powder can be mixed to produce up to 2 litres of glow paint.
- g. One kilogram of UV Phosphorus Powder can be mixed to produce up to 5 litres of UV Ink.
- h. One litre of ink can cover an area of about 3.5 square meters.

---

Phone: (65) 6287 3059, Fax: (65) 6234 4402  
Web Site Address: <http://www.glo-net.com/>  
Email Address: [peter@glo-net.com](mailto:peter@glo-net.com)