



# Pete's Luminous Creations

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

## PHOTO LUMINESCENT CERAMIC GLAZE (LCG)

This is a new product, which can be used on or under glaze or directly on bare ceramic body. Body color of this product is cream and glowing color is blue or blue-green.

Model	Temperature	Body Color	Glow Color	Price in US\$
FDY-2S	800°C~870°C Low Temperature	Cream	Blue	\$140/kg
FDY-2B			Blue-Green	
FDY-2O			Yellow-Green	
FDY-2R			Orange	
ZGS 2-010	980°C ~1080°C Mid temperature	Cream	Blue	
ZGB 2-010			Blue-Green	
ZGB 2-011			Blue-Green	
ZGO 2-011			Yellow-Green	
TGB-2	850°C~910°C Mid temperature	Cream	Blue-Green	
TGO-2			Yellow-Green	
TGS-2			Blue	

### Application Process for Low Temperature Photo luminescent Glaze (FDY Series)

1. Used on bare ceramic body
  - a. Make Glaze Slip  
Glaze : Water = 1 : 0.5, with additives of 1.5% of CMC or water glass. Mix thoroughly.
  - b. Glazing  
Glazing can be applied by spraying, pouring or dipping. Pouring recommended
  - c. Firing  
Firing is okay for direct application on ceramic body. Temperature should be under 820°C and firing time not over 15 minutes
2. Pointers
  - a. Mix thoroughly before application and periodically during application.
  - b. Dipping for long periods is not recommended as the glaze can dissolve in water.
  - c. Grinding is not recommended as it reduces the glow
  - d. Keep viscosity and friction low or the glazed surface could turn black.

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Phone: (65) 6287 3059, Fax: (65) 6387 7229  
Web Site Address: <http://www.glo-net.com/>  
Email Address: [peter@glo-net.com](mailto:peter@glo-net.com)



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## **Application Process for Middle Temperature Photo luminescent Glaze (ZG and TG Series)**

### Temperature

Double firing: 1000°C~1080°C

Triple firing: 980°C~1050°C

### **Application Process 1**

#### Application Surface:

Inner wall of ceramic tile.

#### Procedure

1. Mix the Photo Luminescent Glaze with stamp pad ink to a ratio of 1 : 0.5~0.6.
2. Apply by silkscreen printing process using screen mesh size of 100-150 mesh.
3. After it has dried, place it in a roller kiln for 35 to 50 minutes, under the recommended temperature.

#### Points to note

1. Do not add other types of ceramic pigment to the mixture.
2. Firing time should be as short as possible
3. Firing temperature must not exceed recommended temperature.

### **Application Process 2**

#### Application Surface:

Use triplicate firing technology to produce three-dimensional images on ceramic tiles.

#### Points to note

#### Procedure:

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1. Mix the Photo Luminescent Glaze with ceramic dry powder to a ratio of 1 : 2~4.
2. Apply by silkscreen printing process using screen mesh size of 30-40 mesh.
3. Print on finished pictures or paper by common solid pileup technology.

## Points to note

1. If the mixture turns milky after firing, increase the firing temperature and prolong firing time.
2. Glow effects would be reduced if firing time is too long.
3. Background color should be light as possible as dark colors would reduce the glow effects.

## **Application Process 3**

### Application Surface:

Use triplicate firing technology to produce three-dimensional images on ceramic tiles.

### Procedure:

1. Mix the Photo Luminescent Glaze with stamp pad ink to a ratio of 1 : 0.4.
2. Apply on the surface of the glaze tile; by silkscreen printing process, using screen mesh size of 40-60 mesh.
3. Allow to dry then over print the ceramic pigment.
4. Next, screen-print the ceramic powder using screen mesh size of 30-40 mesh.

## Points to note

1. Color of the ceramic pigment on the Photo luminescent glaze should be light colored. Dark colors might mask the glow effects.
2. Photo luminescent pigment should be completely dry before application of the ceramic glaze or bubbles might form.

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